

Start	577	End	824
Name	OJ991217_14.0118.C14.o1.gp	Method	AAT/GAP
Start	577	End	824
GI	3761181	Score	443
Exons	577..824		
GI Descrip.	4521193/dbj AB013450.1 AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	20728	Seq. ID	OJ991217_14.0118.C14
Gene No.	43237	Strand	+
Start	854	End	1085
Name	OJ991217_14.0118.C14.o1.gs	Method	GENSCAN
Start	854	End	1085
GI	none	Score	.98
Exons	854..961, 1063..1085		

Seq. No.	20728	Seq. ID	OJ991217_14.0118.C14
Gene No.	43238	Strand	-
Start	1791	End	1963
Name	OJ991217_14.0118.C14.o2.gs	Method	GENSCAN
Start	1791	End	1963
GI	none	Score	.93
Exons	1791..1963		

Seq. No.	20729	Seq. ID	OJ991217_14.0118.C15
Gene No.	43239	Strand	+
Start	1298	End	3659
Name	OJ991217_14.0118.C15.o1.gs	Method	GENSCAN
Start	1298	End	3659
GI	none	Score	.53
Exons	1298..1351, 1477..1658, 1880..2004, 2692..3659		

Seq. No.	20730	Seq. ID	OJ991217_14.0118.C18
Gene No.	43240	Strand	-
Start	2222	End	4343
Name	OJ991217_14.0118.C18.o2.gs	Method	GENSCAN
Start	2222	End	4343
GI	none	Score	.84
Exons	2222..2668, 3124..3193, 4282..4343		

Seq. No.	20730	Seq. ID	OJ991217_14.0118.C18
Gene No.	43240	Strand	-
Start	2222	End	4343
Name	OJ991217_14.0118.C18.o1.np	Method	AAT/NAP
Start	2261	End	3090
GI	3643605	Score	226
Exons	2261..2624, 3011..3090		
GI Descrip.	(AC005395) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	20730	Seq. ID	OJ991217_14.0118.C18
Gene No.	43241	Strand	-
Start	5900	End	8959
Name	OJ991217_14.0118.C18.o1.tm	Method	TBLASTX:Maize
Start	2340	End	2602
GI	none	Score	115
Exons	2340..2585, 2417..2602		

Seq. No.	20730	Seq. ID	OJ991217_14.0118.C18
Gene No.	43241	Strand	-
Start	5900	End	8959
Name	OJ991217_14.0118.C18.o1.tc	Method	TBLASTX:Cress
Start	2400	End	2602
GI	none	Score	98
Exons	2400..2591, 2402..2602		

Seq. No.	20730	Seq. ID	OJ991217_14.0118.C18
Gene No.	43241	Strand	-
Start	5900	End	8959
Name	OJ991217_14.0118.C18.o3.gs	Method	GENSCAN
Start	5900	End	8959
GI	none	Score	.81
Exons	5900..6028, 8386..8465, 8701..8817, 8872..8959		

Seq. No.	20731	Seq. ID	OJ991217_14.0118.C20
Gene No.	43242	Strand	+
Start	1	End	616
Name	OJ991217_14.0118.C20.o1.np	Method	AAT/NAP
Start	1	End	616
GI	4510417	Score	79
Exons	1..31, 388..448, 593..616		
GI Descrip.	(AC006929) putative homeodomain transcription factor [Arabidopsis thaliana]		

Seq. No.	20732	Seq. ID	OJ991217_14.0118.C21
Gene No.	43243	Strand	-
Start	1	End	751
Name	OJ991217_14.0118.C21.o1.np	Method	AAT/NAP
Start	1	End	751
GI	5852179	Score	346
Exons	1..121, 284..522, 597..751		
GI Descrip.	(AL117265) zhb0009.1 [Oryza sativa]		

Seq. No.	20732	Seq. ID	OJ991217_14.0118.C21
Gene No.	43243	Strand	-
Start	1	End	751
Name	OJ991217_14.0118.C21.o1.gs	Method	GENSCAN
Start	284	End	716
GI	none	Score	.84
Exons	284..550, 573..716		

Seq. No.	20733	Seq. ID	OJ991217_14.0118.C22
Gene No.	43244	Strand	+
Start	1	End	834
Name	OJ991217_14.0118.C22.o1.np	Method	AAT/NAP
Start	1	End	834
GI	5091513	Score	1408
Exons	1..834		
GI Descrip.	(AB023482) Hypothetical protein [Oryza sativa]		

Seq. No.	20733	Seq. ID	OJ991217_14.0118.C22
Gene No.	43244	Strand	+
Start	1	End	834
Name	OJ991217_14.0118.C22.o1.gs	Method	GENSCAN
Start	4	End	776



GI	none	Score	.97
Exons	4..776		
Seq. No.	20734	Seq. ID	OJ991217_16.0114.C1
Gene No.	43245	Strand	+
Start	675	End	1015
Name	OJ991217_16.0114.C1.o1.gs	Method	GENSCAN
Start	675	End	1015
GI	none	Score	.94
Exons	675..743, 986..1015		
Seq. No.	20734	Seq. ID	OJ991217_16.0114.C1
Gene No.	43246	Strand	+
Start	6056	End	9019
Name	OJ991217_16.0114.C1.o2.gs	Method	GENSCAN
Start	6056	End	9019
GI	none	Score	.45
Exons	6056..6165, 6484..6547, 8098..8294, 8677..9019		
Seq. No.	20735	Seq. ID	OJ991217_16.0114.C2
Gene No.	43247	Strand	+
Start	4853	End	7349
Name	OJ991217_16.0114.C2.o2.gs	Method	GENSCAN
Start	4853	End	7349
GI	none	Score	.75
Exons	4853..4985, 6036..6497, 6499..6777, 7024..7349		
Seq. No.	20735	Seq. ID	OJ991217_16.0114.C2
Gene No.	43247	Strand	+
Start	4853	End	7349
Name	OJ991217_16.0114.C2.o1.gp	Method	AAT/GAP
Start	6394	End	6725
GI	4715611	Score	656
Exons	6394..6725		
Seq. No.	20735	Seq. ID	OJ991217_16.0114.C2
Gene No.	43248	Strand	+
Start	7918	End	9216
Name	OJ991217_16.0114.C2.o2.gp	Method	AAT/GAP
Start	7918	End	9216
GI	4715612	Score	624
Exons	7918..8009, 8955..9216		
GI Descrip.	4521194/dbj AB013613.1 AB013613 5.0e-50 Oryza sativa DNA, centromere sequence RCB11		
Seq. No.	20735	Seq. ID	OJ991217_16.0114.C2
Gene No.	43249	Strand	-
Start	611	End	4290
Name	OJ991217_16.0114.C2.o1.gs	Method	GENSCAN
Start	611	End	4290
GI	none	Score	.76
Exons	611..1431, 1544..1706, 2549..3465, 4041..4290		
Seq. No.	20735	Seq. ID	OJ991217_16.0114.C2
Gene No.	43250	Strand	-
Start	5118	End	6714
Name	OJ991217_16.0114.C2.o1.np	Method	AAT/NAP

Start	5118	End	6714
GI	6498458	Score	124
Exons	5118..5142, 6433..6714		
GI Descrip.	(AP000816) hypothetical protein [Oryza sativa]		

Seq. No.	20735	Seq. ID	OJ991217_16.0114.C2
Gene No.	43251	Strand	-
Start	9734	End	10266
Name	OJ991217_16.0114.C2.o4.gs	Method	GENSCAN
Start	9734	End	10266
GI	none	Score	.67
Exons	9734..10055, 10181..10266		

Seq. No.	20736	Seq. ID	OJ991217_16.0114.C3
Gene No.	43252	Strand	+
Start	3667	End	4146
Name	OJ991217_16.0114.C3.o1.gp	Method	AAT/GAP
Start	3667	End	4146
GI	11308_1.R1084	Score	865
Exons	3667..4146		
GI Descrip.	'6015437/dbj AB008112.1 AB008112 2.0e-09 Homo sapiens PEX1 mRNA, complete cds'		

Seq. No.	20737	Seq. ID	OJ991217_16.0114.C4
Gene No.	43253	Strand	+
Start	920	End	4886
Name	OJ991217_16.0114.C4.o1.gp	Method	AAT/GAP
Start	920	End	3554
GI	29273_1.R1084	Score	1618
Exons	920..1305, 1570..1660, 1753..1805, 1903..1995, 2074..2145, 2717..2789, 3067..3112, 3355..3419, 3501..3554		
GI Descrip.	'4455287/emb CAB36823.1  2.0e-35 (AL035527) putative protein [Arabidopsis thaliana]'		

Seq. No.	20737	Seq. ID	OJ991217_16.0114.C4
Gene No.	43253	Strand	+
Start	920	End	4886
Name	OJ991217_16.0114.C4.o1.np	Method	AAT/NAP
Start	1147	End	3350
GI	4455287	Score	267
Exons	1147..1305, 1570..1704, 1749..1805, 1903..1995, 2074..2172, 3233..3350		
GI Descrip.	(AL035527) putative protein [Arabidopsis thaliana]		

Seq. No.	20737	Seq. ID	OJ991217_16.0114.C4
Gene No.	43253	Strand	+
Start	920	End	4886
Name	OJ991217_16.0114.C4.o2.np	Method	AAT/NAP
Start	3365	End	4536
GI	4038034	Score	315
Exons	3365..3418, 3501..3554, 3630..3707, 4447..4536		
GI Descrip.	(AC005936) unknown protein [Arabidopsis thaliana]		

Seq. No.	20737	Seq. ID	OJ991217_16.0114.C4
Gene No.	43253	Strand	+
Start	920	End	4886
Name	OJ991217_16.0114.C4.o2.gp	Method	AAT/GAP

Start 3529 End 4886  
 GI 40118\_1.R1084 Score 1016  
 Exons 3529..3554, 3630..3707, 4447..4886  
 GI Descrip. '4038034 1.0e-20 (AC005936) unknown protein [Arabidopsis thaliana]'

Seq. No. 20737 Seq. ID OJ991217\_16.0114.C4  
 Gene No. 43254 Strand -  
 Start 905 End 6586  
 Name OJ991217\_16.0114.C4.o1.gs Method GENSCAN  
 Start 905 End 6586  
 GI none Score .7  
 Exons 905..1312, 1488..1600, 4409..4501, 6154..6380, 6429..6586

Seq. No. 20737 Seq. ID OJ991217\_16.0114.C4  
 Gene No. 43254 Strand -  
 Start 905 End 6586  
 Name OJ991217\_16.0114.C4.o1.tm Method TBLASTX:Maize  
 Start 1209 End 2154  
 GI none Score 146  
 Exons 1209..1307, 1210..1308, 1543..1659, 1566..1661, 1569..1658, 1752..1808, 1752..1805, 1891..2001, 1903..1995, 1911..2012, 2067..2141, 2069..2149, 2069..2140, 2071..2148, 2074..2154

Seq. No. 20737 Seq. ID OJ991217\_16.0114.C4  
 Gene No. 43254 Strand -  
 Start 905 End 6586  
 Name OJ991217\_16.0114.C4.o1.ts Method TBLASTX:Soybean  
 Start 1210 End 2789  
 GI none Score 131  
 Exons 1210..1308, 1212..1307, 1543..1659, 1569..1658, 1752..1808, 1900..2001, 1903..1995, 2071..2151, 2073..2186, 2074..2154, 2714..2764, 2766..2789

Seq. No. 20737 Seq. ID OJ991217\_16.0114.C4  
 Gene No. 43254 Strand -  
 Start 905 End 6586  
 Name OJ991217\_16.0114.C4.o2.tc Method TBLASTX:Cress  
 Start 1894 End 3112  
 GI none Score 150  
 Exons 1894..1995, 1897..2001, 1898..2002, 2070..2132, 2074..2154, 2080..2151, 2677..2811, 2697..2813, 2700..2792, 2714..2812, 3059..3112

Seq. No. 20737 Seq. ID OJ991217\_16.0114.C4  
 Gene No. 43254 Strand -  
 Start 905 End 6586  
 Name OJ991217\_16.0114.C4.o2.tm Method TBLASTX:Maize  
 Start 2702 End 4541  
 GI none Score 133  
 Exons 2702..2812, 2714..2794, 3059..3112, 3334..3420, 3335..3421, 3498..3563, 3499..3549, 3500..3568, 3501..3557, 3622..3702, 3624..3710, 3629..3709, 4429..4539, 4440..4541, 4446..4541

Seq. No. 20737 Seq. ID OJ991217\_16.0114.C4  
 Gene No. 43254 Strand -  
 Start 905 End 6586

Name	OJ991217_16.0114.C4.o2.ts	Method	TBLASTX:Soybean
Start	3071	End	4539
GI	none	Score	109
Exons	3071..3112, 3335..3421, 3352..3420, 3500..3547, 3500..3553, 3501..3557, 3624..3707, 3629..3694, 3630..3707, 4429..4539, 4446..4532		

Seq. No.	20737	Seq. ID	OJ991217_16.0114.C4
Gene No.	43254	Strand	-
Start	905	End	6586
Name	OJ991217_16.0114.C4.o1.tc	Method	TBLASTX:Cress
Start	3344	End	4518
GI	none	Score	124
Exons	3344..3421, 3346..3420, 3498..3563, 3501..3557, 3624..3710, 3628..3693, 3630..3707, 4429..4518, 4446..4517		

Seq. No.	20738	Seq. ID	OJ991217_16.0114.C5
Gene No.	43255	Strand	-
Start	82	End	516
Name	OJ991217_16.0114.C5.o1.gs	Method	GENSCAN
Start	82	End	516
GI	none	Score	.91
Exons	82..516		

Seq. No.	20739	Seq. ID	OJ991217_16.0114.C6
Gene No.	43256	Strand	-
Start	10	End	304
Name	OJ991217_16.0114.C6.o1.gs	Method	GENSCAN
Start	10	End	304
GI	none	Score	.59
Exons	10..304		

Seq. No.	20740	Seq. ID	OJ991217_16.0114.C7
Gene No.	43257	Strand	-
Start	269	End	567
Name	OJ991217_16.0114.C7.o1.gs	Method	GENSCAN
Start	269	End	567
GI	none	Score	.41
Exons	269..567		

Seq. No.	20741	Seq. ID	OJ991217_16.0114.C8
Gene No.	43258	Strand	+
Start	113	End	507
Name	OJ991217_16.0114.C8.o1.gp	Method	AAT/GAP
Start	113	End	507
GI	uC-osflcyp086h03a1	Score	782
Exons	113..507		
GI Descrip.	'1420932/gb U61383 ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'		

Seq. No.	20741	Seq. ID	OJ991217_16.0114.C8
Gene No.	43259	Strand	-
Start	174	End	592
Name	OJ991217_16.0114.C8.o1.gs	Method	GENSCAN
Start	174	End	592
GI	none	Score	.51
Exons	174..306, 435..592		

Seq. No.	20742	Seq. ID	OJ991217_16.0114.C9
Gene No.	43260	Strand	+
Start	1	End	526
Name	OJ991217_16.0114.C9.o1.np	Method	AAT/NAP
Start	1	End	526
GI	6715649	Score	44
Exons	1..53, 269..526		
GI Descrip.	(AC007323) T25K16.3 [Arabidopsis thaliana]		
Seq. No.	20742	Seq. ID	OJ991217_16.0114.C9
Gene No.	43261	Strand	-
Start	23	End	624
Name	OJ991217_16.0114.C9.o1.gs	Method	GENSCAN
Start	23	End	624
GI	none	Score	.77
Exons	23..318, 341..512, 514..624		
Seq. No.	20743	Seq. ID	OJ991217_16.0114.C10
Gene No.	43262	Strand	-
Start	5545	End	7102
Name	OJ991217_16.0114.C10.o2.gs	Method	GENSCAN
Start	5545	End	7102
GI	none	Score	.75
Exons	5545..5657, 6014..6141, 7050..7102		
Seq. No.	20743	Seq. ID	OJ991217_16.0114.C10
Gene No.	43263	Strand	-
Start	7358	End	7440
Name	OJ991217_16.0114.C10.o1.gp	Method	AAT/GAP
Start	7358	End	7440
GI	LIB3477-003-P1-K1-E9	Score	116
Exons	7358..7440		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		
Seq. No.	20743	Seq. ID	OJ991217_16.0114.C10
Gene No.	43264	Strand	-
Start	9566	End	9673
Name	OJ991217_16.0114.C10.o3.gs	Method	GENSCAN
Start	9566	End	9673
GI	none	Score	.76
Exons	9566..9673		
Seq. No.	20744	Seq. ID	OJ991217_16.0114.C11
Gene No.	43265	Strand	+
Start	18023	End	18875
Name	OJ991217_16.0114.C11.o8.gs	Method	GENSCAN
Start	18023	End	18875
GI	none	Score	.9
Exons	18023..18055, 18099..18875		
Seq. No.	20744	Seq. ID	OJ991217_16.0114.C11
Gene No.	43266	Strand	+
Start	21861	End	23127
Name	OJ991217_16.0114.C11.o3.np	Method	AAT/NAP

Start 21861 End 23127  
 GI 6907086 Score 970  
 Exons 21861..22644; 22707..22940, 22973..23127  
 GI Descrip. (AP001129) hypothetical protein [Oryza sativa]

Seq. No. 20744 Seq. ID OJ991217\_16.0114.C11  
 Gene No. 43267 Strand -  
 Start 1508 End 3439  
 Name OJ991217\_16.0114.C11.o1.gs Method GENSCAN  
 Start 1508 End 3439  
 GI none Score .44  
 Exons 1508..1564, 2158..2188, 2801..2952, 3218..3439

Seq. No. 20744 Seq. ID OJ991217\_16.0114.C11  
 Gene No. 43268 Strand -  
 Start 4171 End 4581  
 Name OJ991217\_16.0114.C11.o2.gs Method GENSCAN  
 Start 4171 End 4581  
 GI none Score .8  
 Exons 4171..4188, 4243..4270, 4487..4581

Seq. No. 20744 Seq. ID OJ991217\_16.0114.C11  
 Gene No. 43269 Strand -  
 Start 6251 End 6649  
 Name OJ991217\_16.0114.C11.o3.gs Method GENSCAN  
 Start 6251 End 6649  
 GI none Score .77  
 Exons 6251..6649

Seq. No. 20744 Seq. ID OJ991217\_16.0114.C11  
 Gene No. 43270 Strand -  
 Start 7327 End 12553  
 Name OJ991217\_16.0114.C11.o1.gp Method AAT/GAP  
 Start 7327 End 8044  
 GI 15517\_1.R1084 Score 1352  
 Exons 7327..8044  
 GI Descrip. '4760700/dbj|BAA77387.1| 2.0e-22 (AB024437) peroxidase 1  
 [Scutellaria baicalensis]'

Seq. No. 20744 Seq. ID OJ991217\_16.0114.C11  
 Gene No. 43270 Strand -  
 Start 7327 End 12553  
 Name OJ991217\_16.0114.C11.o1.np Method AAT/NAP  
 Start 7606 End 12553  
 GI 4760700 Score 783  
 Exons 7606..8180, 10006..10198, 10799..10949, 12507..12553  
 GI Descrip. (AB024437) peroxidase 1 [Scutellaria baicalensis]

Seq. No. 20744 Seq. ID OJ991217\_16.0114.C11  
 Gene No. 43270 Strand -  
 Start 7327 End 12553  
 Name OJ991217\_16.0114.C11.o4.gs Method GENSCAN  
 Start 7606 End 8262  
 GI none Score .56  
 Exons 7606..8262

Seq. No. 20744 Seq. ID OJ991217\_16.0114.C11

Gene No. 43270 Strand -  
 Start 7327 End 12553  
 Name OJ991217\_16.0114.C11.o2.gp Method AAT/GAP  
 Start 8144 End 11174  
 GI 46826\_1.R1084 Score 1136  
 Exons 8144..8184, 10010..10198, 10799..11174  
 GI Descrip. '4760700/dbj|BAA77387.1| 5.0e-36 (AB024437) peroxidase 1  
 [Scutellaria baicalensis]'

Seq. No. 20744 Seq. ID OJ991217\_16.0114.C11  
 Gene No. 43270 Strand -  
 Start 7327 End 12553  
 Name OJ991217\_16.0114.C11.o5.gs Method GENSCAN  
 Start 9673 End 11002  
 GI none Score .85  
 Exons 9673..9765, 10010..10198, 10799..11002

Seq. No. 20744 Seq. ID OJ991217\_16.0114.C11  
 Gene No. 43271 Strand -  
 Start 13634 End 15132  
 Name OJ991217\_16.0114.C11.o3.gp Method AAT/GAP  
 Start 13475 End 14638  
 GI 51218\_1.R1084 Score 1294  
 Exons 13475..14034, 14340..14505, 14577..14638  
 GI Descrip. '1853975/dbj|BAA03373| 5.0e-22 (D14482) putative peroxidase  
 [Oryza sativa]'

Seq. No. 20744 Seq. ID OJ991217\_16.0114.C11  
 Gene No. 43271 Strand -  
 Start 13634 End 15132  
 Name OJ991217\_16.0114.C11.o6.gs Method GENSCAN  
 Start 13634 End 15094  
 GI none Score .99  
 Exons 13634..14034, 14340..14505, 14578..14766, 14882..14983,  
 15014..15094

Seq. No. 20744 Seq. ID OJ991217\_16.0114.C11  
 Gene No. 43271 Strand -  
 Start 13634 End 15132  
 Name OJ991217\_16.0114.C11.o4.gp Method AAT/GAP  
 Start 14628 End 15132  
 GI 60477\_1.R1084 Score 711  
 Exons 14628..14766, 14882..15132  
 GI Descrip. '4760700/dbj|BAA77387.1| 5.0e-23 (AB024437) peroxidase 1  
 [Scutellaria baicalensis]'

Seq. No. 20744 Seq. ID OJ991217\_16.0114.C11  
 Gene No. 43272 Strand -  
 Start 16025 End 17754  
 Name OJ991217\_16.0114.C11.o7.gs Method GENSCAN  
 Start 16025 End 17754  
 GI none Score .72  
 Exons 16025..16057, 16567..16611, 16697..16797, 16913..17019,  
 17151..17252, 17356..17578, 17685..17754

Seq. No. 20744 Seq. ID OJ991217\_16.0114.C11  
 Gene No. 43272 Strand -

Start	16025	End	17754
Name	OJ991217_16.0114.C11.o2.np	Method	AAT/NAP
Start	16333	End	17576
GI	4966344	Score	274
Exons	16333..16461, 16567..16611, 16697..16797, 16913..17019, 17151..17252, 17359..17576		
GI Descrip.	(AC006341) ESTs gb F15498, gb H37515, gb T41906, gb T22448, gb W43356 and gb T20739 come from this gene. [Arabidopsis thaliana]		

Seq. No.	20744	Seq. ID	OJ991217_16.0114.C11
Gene No.	43273	Strand	-
Start	19958	End	23083
Name	OJ991217_16.0114.C11.o2.tm	Method	TBLASTX:Maize
Start	7600	End	13882
GI	none	Score	209
Exons	7600..7860, 7610..7858, 13620..13715, 13643..13882		

Seq. No.	20744	Seq. ID	OJ991217_16.0114.C11
Gene No.	43273	Strand	-
Start	19958	End	23083
Name	OJ991217_16.0114.C11.o2.ts	Method	TBLASTX:Soybean
Start	7610	End	13684
GI	5677397	Score	82
Exons	7610..7738, 7618..7863, 13646..13684		
GI Descrip.	129805/sp_P22195_PER1_ARAHY 2.0e-39 CATIONIC PEROXIDASE 1 PRECURSOR >gi_99872_pir_A38265 peroxidase (EC 1.11.1.7) precursor, cationic (clone PNC1) - peanut		

Seq. No.	20744	Seq. ID	OJ991217_16.0114.C11
Gene No.	43273	Strand	-
Start	19958	End	23083
Name	OJ991217_16.0114.C11.o1.tc	Method	TBLASTX:Cress
Start	7777	End	15040
GI	none	Score	73
Exons	7777..7863, 7906..8190, 7928..8053, 8096..8191, 10016..10180, 10136..10234, 10799..10945, 13643..13735, 13775..13888, 13922..14038, 14305..14502, 14414..14503, 14581..14748, 14621..14722, 14846..15040		

Seq. No.	20744	Seq. ID	OJ991217_16.0114.C11
Gene No.	43273	Strand	-
Start	19958	End	23083
Name	OJ991217_16.0114.C11.o1.ts	Method	TBLASTX:Soybean
Start	7906	End	15019
GI	none	Score	69
Exons	7906..8106, 7979..8104, 8117..8182, 10010..10234, 10053..10226, 10799..10936, 13694..13876, 13907..14038, 14338..14427, 14440..14505, 14578..14766, 14621..14767, 14882..15019, 14886..14906		

Seq. No.	20744	Seq. ID	OJ991217_16.0114.C11
Gene No.	43273	Strand	-
Start	19958	End	23083
Name	OJ991217_16.0114.C11.o1.tm	Method	TBLASTX:Maize
Start	8035	End	18808
GI	none	Score	163



Exons 8035..8184, 8036..8185, 8039..8191, 10007..10222, 10053..10220, 10799..10939, 10806..10979, 10974..11030, 14357..14551, 14362..14502, 14565..14684, 14566..14685, 14575..14766, 14621..14767, 14690..14767, 14882..15022, 14885..15022, 18713..18808

Seq. No.	20744	Seq. ID	OJ991217_16.0114.C11
Gene No.	43273	Strand	-
Start	19958	End	23083
Name	OJ991217_16.0114.C11.o1.tw	Method	TBLASTX:Wheat
Start	8095	End	14914
GI	none	Score	150
Exons	8095..8190, 10007..10222, 10053..10220, 10799..10831, 14416..14502, 14417..14551, 14556..14684, 14575..14766, 14621..14767, 14690..14767, 14881..14910, 14882..14914, 14882..14914		

Seq. No.	20744	Seq. ID	OJ991217_16.0114.C11
Gene No.	43273	Strand	-
Start	19958	End	23083
Name	OJ991217_16.0114.C11.o5.gp	Method	AAT/GAP
Start	19958	End	20456
GI	38782_1.R1084	Score	788
Exons	19958..20456		
GI Descrip.	'6069643/dbj AP000616.1 AP000616 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	20744	Seq. ID	OJ991217_16.0114.C11
Gene No.	43273	Strand	-
Start	19958	End	23083
Name	OJ991217_16.0114.C11.o9.gs	Method	GENSCAN
Start	20257	End	23083
GI	none	Score	.69
Exons	20257..20330, 20701..20747, 21681..21723, 21988..22020, 22095..22125, 22311..22542, 22817..22919, 22959..23083		

Seq. No.	20745	Seq. ID	OJ991217_16.0114.C12
Gene No.	43274	Strand	+
Start	920	End	1287
Name	OJ991217_16.0114.C12.o1.gs	Method	GENSCAN
Start	920	End	1287
GI	none	Score	.77
Exons	920..1045, 1102..1211, 1250..1287		

Seq. No.	20746	Seq. ID	OJ991217_16.0114.C13
Gene No.	43275	Strand	+
Start	3321	End	4328
Name	OJ991217_16.0114.C13.o1.gp	Method	AAT/GAP
Start	3201	End	3436
GI	2442343	Score	411
Exons	3201..3436		

Seq. No.	20746	Seq. ID	OJ991217_16.0114.C13
Gene No.	43275	Strand	+
Start	3321	End	4328
Name	OJ991217_16.0114.C13.o2.gs	Method	GENSCAN
Start	3321	End	4322

GI	none	Score	.85
Exons	3321..3513, 3763..3896, 3984..4322		
Seq. No.	20746	Seq. ID	OJ991217_16.0114.C13
Gene No.	43275	Strand	+
Start	3321	End	4328
Name	OJ991217_16.0114.C13.o2.np	Method	AAT/NAP
Start	3339	End	4319
GI	4115918	Score	543
Exons	3339..3560, 3756..3896, 3984..4319		
GI Descrip.	(AF118222) similar to nascent polypeptide associated complex alpha chain [Arabidopsis thaliana]		

Seq. No.	20746	Seq. ID	OJ991217_16.0114.C13
Gene No.	43275	Strand	+
Start	3321	End	4328
Name	OJ991217_16.0114.C13.o2.gp	Method	AAT/GAP
Start	3398	End	4328
GI	LIB3433-043-P1-K1-E4	Score	1097
Exons	3398..3513, 3763..3896, 3984..4328		
GI Descrip.	'4115918 1.0e-31 (AF118222) similar to nascent polypeptide associated complex alpha chain [Arabidopsis thaliana]'		

Seq. No.	20746	Seq. ID	OJ991217_16.0114.C13
Gene No.	43276	Strand	-
Start	1	End	792
Name	OJ991217_16.0114.C13.o1.np	Method	AAT/NAP
Start	1	End	753
GI	4760700	Score	683
Exons	1..484, 556..753		
GI Descrip.	(AB024437) peroxidase 1 [Scutellaria baicalensis]		

Seq. No.	20746	Seq. ID	OJ991217_16.0114.C13
Gene No.	43276	Strand	-
Start	1	End	792
Name	OJ991217_16.0114.C13.o1.gs	Method	GENSCAN
Start	41	End	792
GI	none	Score	.74
Exons	41..484, 556..792		

Seq. No.	20746	Seq. ID	OJ991217_16.0114.C13
Gene No.	43277	Strand	-
Start	4913	End	14781
Name	OJ991217_16.0114.C13.o1.ts	Method	TBLASTX:Soybean
Start	2	End	702
GI	none	Score	97
Exons	2..490, 3..212, 252..485, 556..702		

Seq. No.	20746	Seq. ID	OJ991217_16.0114.C13
Gene No.	43277	Strand	-
Start	4913	End	14781
Name	OJ991217_16.0114.C13.o2.tm	Method	TBLASTX:Maize
Start	11	End	735
GI	none	Score	277
Exons	11..85, 86..490, 96..485, 556..735, 557..682		

Seq. No.	20746	Seq. ID	OJ991217_16.0114.C13
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Gene No.	43277	Strand	-
Start	4913	End	14781
Name	OJ991217_16.0114.C13.o3.tc	Method	TBLASTX:Cress
Start	11	End	693
GI	none	Score	63
Exons	11..415, 36..173, 201..416, 422..490, 556..693		
Seq. No.	20746	Seq. ID	OJ991217_16.0114.C13
Gene No.	43277	Strand	-
Start	4913	End	14781
Name	OJ991217_16.0114.C13.o1.tw	Method	TBLASTX:Wheat
Start	62	End	693
GI	none	Score	190
Exons	62..409, 87..431, 416..490, 559..693		
Seq. No.	20746	Seq. ID	OJ991217_16.0114.C13
Gene No.	43277	Strand	-
Start	4913	End	14781
Name	OJ991217_16.0114.C13.o5.tm	Method	TBLASTX:Maize
Start	3764	End	4316
GI	none	Score	88
Exons	3764..3895, 3827..3877, 3828..3899, 3840..3899, 3981..4064, 3983..4315, 3984..4316		
Seq. No.	20746	Seq. ID	OJ991217_16.0114.C13
Gene No.	43277	Strand	-
Start	4913	End	14781
Name	OJ991217_16.0114.C13.o4.tc	Method	TBLASTX:Cress
Start	3767	End	4343
GI	none	Score	71
Exons	3767..3895, 3828..3899, 3840..3896, 3983..4315, 3984..4316, 4203..4343		
Seq. No.	20746	Seq. ID	OJ991217_16.0114.C13
Gene No.	43277	Strand	-
Start	4913	End	14781
Name	OJ991217_16.0114.C13.o2.tw	Method	TBLASTX:Wheat
Start	3797	End	6515
GI	none	Score	64
Exons	3797..3895, 3827..3877, 3828..3899, 3983..4138, 3984..4139, 4188..4313, 4193..4312, 4197..4313, 6429..6515		
Seq. No.	20746	Seq. ID	OJ991217_16.0114.C13
Gene No.	43277	Strand	-
Start	4913	End	14781
Name	OJ991217_16.0114.C13.o3.ts	Method	TBLASTX:Soybean
Start	3827	End	4321
GI	none	Score	104
Exons	3827..3877, 3828..3899, 3983..4138, 3984..4142, 4185..4316, 4193..4321		
Seq. No.	20746	Seq. ID	OJ991217_16.0114.C13
Gene No.	43277	Strand	-
Start	4913	End	14781
Name	OJ991217_16.0114.C13.o4.tm	Method	TBLASTX:Maize
Start	4603	End	5158
GI	none	Score	73

Exons 4603..4698, 4757..4798, 4922..5158, 4926..5156

Seq. No. 20746 Seq. ID OJ991217\_16.0114.C13  
Gene No. 43277 Strand -  
Start 4913 End 14781  
Name OJ991217\_16.0114.C13.o3.gs Method GENSCAN  
Start 4913 End 14781  
GI none Score .51  
Exons 4913..5482, 5569..5733, 5855..6763, 7403..7602, 7729..7829,  
7971..8593, 8675..8770, 9113..9292, 9397..9548, 9633..9646,  
9978..10138, 10266..10388, 10486..10658, 11254..11571,  
11685..11895, 12760..13767, 14335..14449, 14633..14781

Seq. No. 20746 Seq. ID OJ991217\_16.0114.C13  
Gene No. 43277 Strand -  
Start 4913 End 14781  
Name OJ991217\_16.0114.C13.o3.np Method AAT/NAP  
Start 4940 End 13156  
GI 6102610 Score 6237  
Exons 4940..5482, 5569..5733, 5855..6763, 7403..7598, 7737..7829,  
7971..8593, 8675..8770, 8861..9022, 9113..9292, 9397..9548,  
9633..9866, 9978..10138, 10266..10388, 10486..10664,  
10886..11102, 11177..11571, 11685..11895, 12568..12681,  
12760..13156

GI Descrip. (AF187317) CAF protein [Arabidopsis thaliana]

Seq. No. 20746 Seq. ID OJ991217\_16.0114.C13  
Gene No. 43277 Strand -  
Start 4913 End 14781  
Name OJ991217\_16.0114.C13.o2.tc Method TBLASTX:Cress  
Start 4943 End 5435  
GI none Score 260  
Exons 4943..5209, 4944..5174, 5246..5434, 5247..5435

Seq. No. 20746 Seq. ID OJ991217\_16.0114.C13  
Gene No. 43277 Strand -  
Start 4913 End 14781  
Name OJ991217\_16.0114.C13.o2.ts Method TBLASTX:Soybean  
Start 4947 End 5309  
GI none Score 265  
Exons 4947..5180, 4949..5308, 5247..5309

Seq. No. 20746 Seq. ID OJ991217\_16.0114.C13  
Gene No. 43277 Strand -  
Start 4913 End 14781  
Name OJ991217\_16.0114.C13.o4.ts Method TBLASTX:Soybean  
Start 5312 End 5893  
GI none Score 148  
Exons 5312..5539, 5346..5486, 5566..5733, 5567..5734, 5618..5734,  
5852..5893

Seq. No. 20746 Seq. ID OJ991217\_16.0114.C13  
Gene No. 43277 Strand -  
Start 4913 End 14781  
Name OJ991217\_16.0114.C13.o1.tc Method TBLASTX:Cress  
Start 5603 End 6421  
GI none Score 167

Exons 5603..5734, 5605..5733, 5620..5736, 5840..6010, 5856..6011,  
6015..6071, 6038..6070, 6080..6202, 6089..6193, 6212..6421,  
6237..6362

Seq. No. 20746 Seq. ID OJ991217\_16.0114.C13  
Gene No. 43277 Strand -  
Start 4913 End 14781  
Name OJ991217\_16.0114.C13.o1.tm Method TBLASTX:Maize  
Start 5875 End 6721  
GI none Score 624  
Exons 5875..5922, 5876..6412, 5876..6397, 5877..6398, 6013..6411,  
6362..6517, 6395..6517, 6438..6521, 6438..6518, 6442..6525,  
6542..6721

Seq. No. 20746 Seq. ID OJ991217\_16.0114.C13  
Gene No. 43277 Strand -  
Start 4913 End 14781  
Name OJ991217\_16.0114.C13.o5.ts Method TBLASTX:Soybean  
Start 5954 End 6721  
GI none Score 213  
Exons 5954..6175, 5955..6161, 6170..6202, 6620..6721

Seq. No. 20746 Seq. ID OJ991217\_16.0114.C13  
Gene No. 43277 Strand -  
Start 4913 End 14781  
Name OJ991217\_16.0114.C13.o3.tm Method TBLASTX:Maize  
Start 6726 End 7852  
GI none Score 63  
Exons 6726..6764, 6726..6764, 7391..7609, 7400..7603, 7402..7611,  
7404..7610, 7725..7808, 7730..7780, 7761..7835, 7773..7850,  
7778..7852, 7787..7852

Seq. No. 20746 Seq. ID OJ991217\_16.0114.C13  
Gene No. 43277 Strand -  
Start 4913 End 14781  
Name OJ991217\_16.0114.C13.o6.tm Method TBLASTX:Maize  
Start 11397 End 11795  
GI none Score 108  
Exons 11397..11471, 11397..11468, 11398..11478, 11399..11473,  
11455..11550, 11462..11605, 11463..11582, 11471..11605,  
11662..11793, 11684..11794, 11694..11795, 11730..11795

Seq. No. 20747 Seq. ID OJ991217\_16.0114.C14  
Gene No. 43278 Strand +  
Start 893 End 1029  
Name OJ991217\_16.0114.C14.o1.gs Method GENSCAN  
Start 893 End 1029  
GI none Score .94  
Exons 893..1029

Seq. No. 20747 Seq. ID OJ991217\_16.0114.C14  
Gene No. 43279 Strand +  
Start 2860 End 2974  
Name OJ991217\_16.0114.C14.o1.gp Method AAT/GAP  
Start 2860 End 2974  
GI 2862\_2.R1084 Score 130  
Exons 2860..2974

GI Descrip. '5902930/dbj|BAA84494.1| 2.0e-29 (AB029510) small GTP-binding protein OsRac3 [Oryza sativa]'

Seq. No.	20747	Seq. ID	OJ991217_16.0114.C14
Gene No.	43280	Strand	+
Start	4875	End	10150
Name	OJ991217_16.0114.C14.o3.gs	Method	GENSCAN
Start	4875	End	9481
GI	none	Score	.89
Exons	4875..5234, 5283..5406, 5528..5586, 6030..6094, 6303..6396, 6641..6752, 7414..7501, 7905..8026, 8101..8438, 9044..9335, 9411..9481		

Seq. No.	20747	Seq. ID	OJ991217_16.0114.C14
Gene No.	43280	Strand	+
Start	4875	End	10150
Name	OJ991217_16.0114.C14.o1.np	Method	AAT/NAP
Start	4932	End	10150
GI	6899894	Score	569
Exons	4932..5165, 5283..5406, 5528..5586, 6030..6094, 6303..6396, 6470..6550, 6641..6752, 7414..7571, 7881..8436, 9063..9229, 9261..9335, 9411..9479, 10050..10150		

GI Descrip. (AL138642) serine/threonine-protein kinase-like protein [Arabidopsis thaliana]

Seq. No.	20747	Seq. ID	OJ991217_16.0114.C14
Gene No.	43280	Strand	+
Start	4875	End	10150
Name	OJ991217_16.0114.C14.o2.tm	Method	TBLASTX:Maize
Start	7947	End	8402
GI	none	Score	41
Exons	7947..7982, 7948..7986, 8099..8272, 8103..8351, 8103..8174, 8105..8350, 8364..8402		

Seq. No.	20747	Seq. ID	OJ991217_16.0114.C14
Gene No.	43280	Strand	+
Start	4875	End	10150
Name	OJ991217_16.0114.C14.o1.tm	Method	TBLASTX:Maize
Start	9029	End	9507
GI	none	Score	98
Exons	9029..9124, 9030..9197, 9030..9152, 9041..9208, 9091..9207, 9214..9339, 9215..9340, 9396..9458, 9396..9491, 9406..9507, 9409..9507		

Seq. No.	20748	Seq. ID	OJ991217_16.0114.C15
Gene No.	43281	Strand	+
Start	1	End	232
Name	OJ991217_16.0114.C15.o1.gp	Method	AAT/GAP
Start	1	End	232
GI	3761184	Score	417
Exons	1..232		

Seq. No.	20749	Seq. ID	OJ991007_13.0106.C1
Gene No.	43282	Strand	+
Start	1	End	3759
Name	OJ991007_13.0106.C1.o1.np	Method	AAT/NAP
Start	1	End	2134

GI 3786007 Score 1024  
 Exons 1..380, 662..1019, 1111..1653, 1856..2134  
 GI Descrip. (AC005499) hypothetical protein [Arabidopsis thaliana]

Seq. No. 20749 Seq. ID OJ991007\_13.0106.C1  
 Gene No. 43282 Strand +  
 Start 1 End 3759  
 Name OJ991007\_13.0106.C1.o1.gs Method GENSCAN  
 Start 310 End 3759  
 GI none Score .66  
 Exons 310..380, 662..1019, 1111..1653, 1856..2054, 2425..2457,  
 3639..3759

Seq. No. 20749 Seq. ID OJ991007\_13.0106.C1  
 Gene No. 43282 Strand +  
 Start 1 End 3759  
 Name OJ991007\_13.0106.C1.o1.ts Method TBLASTX:Soybean  
 Start 666 End 1230  
 GI none Score 244  
 Exons 666..1019, 1105..1230

Seq. No. 20749 Seq. ID OJ991007\_13.0106.C1  
 Gene No. 43282 Strand +  
 Start 1 End 3759  
 Name OJ991007\_13.0106.C1.o1.tc Method TBLASTX:Cress  
 Start 669 End 1506  
 GI none Score 237  
 Exons 669..1019, 1105..1230, 1339..1506

Seq. No. 20749 Seq. ID OJ991007\_13.0106.C1  
 Gene No. 43282 Strand +  
 Start 1 End 3759  
 Name OJ991007\_13.0106.C1.o1.tm Method TBLASTX:Maize  
 Start 683 End 1969  
 GI none Score 77  
 Exons 683..733, 684..731, 729..992, 729..920, 882..1040, 908..1027,  
 909..1034, 1108..1632, 1109..1606, 1128..1652, 1434..1652,  
 1444..1653, 1841..1897, 1853..1909, 1894..1968, 1895..1969

Seq. No. 20749 Seq. ID OJ991007\_13.0106.C1  
 Gene No. 43282 Strand +  
 Start 1 End 3759  
 Name OJ991007\_13.0106.C1.o2.ts Method TBLASTX:Soybean  
 Start 1868 End 2152  
 GI none Score 190  
 Exons 1868..2152

Seq. No. 20749 Seq. ID OJ991007\_13.0106.C1  
 Gene No. 43282 Strand +  
 Start 1 End 3759  
 Name OJ991007\_13.0106.C1.o2.tc Method TBLASTX:Cress  
 Start 1897 End 2122  
 GI none Score 193  
 Exons 1897..2091, 1898..2122

Seq. No. 20749 Seq. ID OJ991007\_13.0106.C1  
 Gene No. 43282 Strand +

Start 1  
 Name OJ991007\_13.0106.C1.o1.tw  
 Start 1910  
 GI none  
 Exons 1910..2134, 1933..2133

End 3759  
 Method TBLASTX:Wheat  
 End 2134  
 Score 180

Seq. No. 20749  
 Gene No. 43282  
 Start 1  
 Name OJ991007\_13.0106.C1.o2.tm  
 Start 1992  
 GI none  
 Exons 1992..2123, 1992..2132, 1996..2136, 2000..2158, 2002..2157

Seq. ID OJ991007\_13.0106.C1  
 Strand +  
 End 3759  
 Method TBLASTX:Maize  
 End 2158  
 Score 116

Seq. No. 20750  
 Gene No. 43283  
 Start 1  
 Name OJ991007\_13.0106.C3.o1.np  
 Start 1  
 GI 4585884  
 Exons 1..41, 216..246, 4361..4688, 4779..5004, 5075..5402, 6223..6352  
 GI Descrip. (AC005850) Hypothetical protein [Arabidopsis thaliana]

Seq. ID OJ991007\_13.0106.C3  
 Strand +  
 End 6352  
 Method AAT/NAP  
 End 6352  
 Score 366

Seq. No. 20750  
 Gene No. 43283  
 Start 1  
 Name OJ991007\_13.0106.C3.o1.gs  
 Start 1599  
 GI none  
 Exons 1599..1610, 1730..1814, 1936..2693

Seq. ID OJ991007\_13.0106.C3  
 Strand +  
 End 6352  
 Method GENSCAN  
 End 2693  
 Score .83

Seq. No. 20750  
 Gene No. 43283  
 Start 1  
 Name OJ991007\_13.0106.C3.o1.gp  
 Start 2072  
 GI 701303  
 Exons 2072..2534

Seq. ID OJ991007\_13.0106.C3  
 Strand +  
 End 6352  
 Method AAT/GAP  
 End 2534  
 Score 803

Seq. No. 20750  
 Gene No. 43284  
 Start 6672  
 Name OJ991007\_13.0106.C3.o2.gp  
 Start 6672  
 GI 72424\_1.R1084  
 Exons 6672..6703, 7045..7099

Seq. ID OJ991007\_13.0106.C3  
 Strand -  
 End 7099  
 Method AAT/GAP  
 End 7099  
 Score 63

GI Descrip. '2842493/emb|CAA16890.1| 8.0e-32 (AL021749) predicted protein [Arabidopsis thaliana]'

Seq. No. 20750  
 Gene No. 43285  
 Start 10874  
 Name OJ991007\_13.0106.C3.o2.tm  
 Start 4338  
 GI none  
 Exons 4338..4694, 4350..4505, 4352..4693, 4563..4727, 4775..4867, 4776..4868, 4776..4871

Seq. ID OJ991007\_13.0106.C3  
 Strand -  
 End 13570  
 Method TBLASTX:Maize  
 End 4871  
 Score 489



Seq. No.	20750	Seq. ID	OJ991007_13.0106.C3
Gene No.	43285	Strand	-
Start	10874	End	13570
Name	OJ991007_13.0106.C3.o1.tw	Method	TBLASTX:Wheat
Start	4845	End	5277
GI	none	Score	97
Exons	4845..4973, 4852..4980, 5076..5168, 5077..5169, 5182..5277		

Seq. No.	20750	Seq. ID	OJ991007_13.0106.C3
Gene No.	43285	Strand	-
Start	10874	End	13570
Name	OJ991007_13.0106.C3.o1.tm	Method	TBLASTX:Maize
Start	4872	End	5376
GI	none	Score	191
Exons	4872..5006, 4873..5007, 4874..5017, 5024..5194, 5043..5195, 5046..5195, 5050..5199, 5165..5371, 5191..5376, 5196..5372		

Seq. No.	20750	Seq. ID	OJ991007_13.0106.C3
Gene No.	43285	Strand	-
Start	10874	End	13570
Name	OJ991007_13.0106.C3.o2.ts	Method	TBLASTX:Soybean
Start	5068	End	5355
GI	none	Score	209
Exons	5068..5277, 5076..5165, 5293..5355		

Seq. No.	20750	Seq. ID	OJ991007_13.0106.C3
Gene No.	43285	Strand	-
Start	10874	End	13570
Name	OJ991007_13.0106.C3.o2.np	Method	AAT/NAP
Start	10874	End	13570
GI	4678924	Score	424
Exons	10874..10917, 12480..12609, 12730..12821, 12923..13129, 13207..13372, 13474..13570		
GI Descrip.	(AL049711) putative protein [Arabidopsis thaliana]		

Seq. No.	20750	Seq. ID	OJ991007_13.0106.C3
Gene No.	43285	Strand	-
Start	10874	End	13570
Name	OJ991007_13.0106.C3.o3.gs	Method	GENSCAN
Start	11455	End	13521
GI	none	Score	.88
Exons	11455..11494, 11845..12075, 12229..12343, 12441..12680, 12766..12860, 12950..13129, 13207..13521		

Seq. No.	20750	Seq. ID	OJ991007_13.0106.C3
Gene No.	43285	Strand	-
Start	10874	End	13570
Name	OJ991007_13.0106.C3.o1.ts	Method	TBLASTX:Soybean
Start	12021	End	13328
GI	none	Score	66
Exons	12021..12089, 12073..12108, 12788..12856, 12789..12875, 12933..12977, 12934..13131, 12941..13135, 12988..13137, 13200..13292, 13201..13293, 13296..13328		

Seq. No.	20750	Seq. ID	OJ991007_13.0106.C3
Gene No.	43285	Strand	-

Start	10874	End	13570
Name	OJ991007_13.0106.C3.o3.gp	Method	AAT/GAP
Start	12624	End	13318
GI	uC-osroM202010c03a1	Score	824
Exons	12624..12680, 12766..12860, 12944..13129, 13207..13318		
GI Descrip.	'4678924/emb CAB41315.1  2.0e-46 (AL049711) putative protein [Arabidopsis thaliana]'		

Seq. No.	20750	Seq. ID	OJ991007_13.0106.C3
Gene No.	43285	Strand	-
Start	10874	End	13570
Name	OJ991007_13.0106.C3.o3.tm	Method	TBLASTX:Maize
Start	12798	End	13317
GI	none	Score	49
Exons	12798..12905, 12831..12866, 12931..13131, 12932..13135, 12988..13137, 13191..13316, 13200..13316, 13207..13317		

Seq. No.	20750	Seq. ID	OJ991007_13.0106.C3
Gene No.	43285	Strand	-
Start	10874	End	13570
Name	OJ991007_13.0106.C3.o1.tc	Method	TBLASTX:Cress
Start	12928	End	13331
GI	none	Score	179
Exons	12928..13131, 12950..13135, 13207..13329, 13209..13331		

Seq. No.	20751	Seq. ID	OJ991007_13.0106.C4
Gene No.	43286	Strand	+
Start	173	End	1192
Name	OJ991007_13.0106.C4.o1.gs	Method	GENSCAN
Start	173	End	1192
GI	none	Score	.84
Exons	173..463, 950..1192		

Seq. No.	20751	Seq. ID	OJ991007_13.0106.C4
Gene No.	43287	Strand	+
Start	7036	End	8485
Name	OJ991007_13.0106.C4.o4.gs	Method	GENSCAN
Start	7036	End	8485
GI	none	Score	.67
Exons	7036..7357, 7605..7638, 7832..8075, 8171..8485		

Seq. No.	20751	Seq. ID	OJ991007_13.0106.C4
Gene No....	43288	Strand	+
Start	10625	End	14272
Name	OJ991007_13.0106.C4.o5.gs	Method	GENSCAN
Start	10625	End	14272
GI	none	Score	.54
Exons	10625..10635, 11274..11329, 12972..13097, 13813..13980, 14067..14272		

Seq. No.	20751	Seq. ID	OJ991007_13.0106.C4
Gene No.	43289	Strand	-
Start	1	End	274
Name	OJ991007_13.0106.C4.o1.np	Method	AAT/NAP
Start	1	End	274
GI	4678924	Score	239
Exons	1..274		

GI Descrip. (AL049711) putative protein [Arabidopsis thaliana]

Seq. No.	20751	Seq. ID	OJ991007_13.0106.C4
Gene No.	43290	Strand	-
Start	3505	End	4937
Name	OJ991007_13.0106.C4.o3.gs	Method	GENSCAN
Start	3505	End	4937
GI	none	Score	.77
Exons	3505..3783, 3821..3924, 4480..4754, 4831..4937		

Seq. No.	20751	Seq. ID	OJ991007_13.0106.C4
Gene No.	43291	Strand	-
Start	18539	End	27311
Name	OJ991007_13.0106.C4.o1.tc	Method	TBLASTX:Cress
Start	74	End	277
GI	none	Score	153
Exons	74..277, 87..257		

Seq. No.	20751	Seq. ID	OJ991007_13.0106.C4
Gene No.	43291	Strand	-
Start	18539	End	27311
Name	OJ991007_13.0106.C4.o1.tm	Method	TBLASTX:Maize
Start	77	End	292
GI	none	Score	269
Exons	77..292, 81..257, 83..277		

Seq. No.	20751	Seq. ID	OJ991007_13.0106.C4
Gene No.	43291	Strand	-
Start	18539	End	27311
Name	OJ991007_13.0106.C4.o1.ts	Method	TBLASTX:Soybean
Start	86	End	274
GI	none	Score	166
Exons	86..274, 87..257, 92..274		

Seq. No.	20751	Seq. ID	OJ991007_13.0106.C4
Gene No.	43291	Strand	-
Start	18539	End	27311
Name	OJ991007_13.0106.C4.o7.gs	Method	GENSCAN
Start	18539	End	27311
GI	none	Score	.59
Exons	18539..18631, 21387..21596, 23808..24002, 24086..24160, 26366..26530, 26837..27022, 27168..27311		

Seq. No.	20752	Seq. ID	OJ991007_13.0106.C5
Gene No.	43292	Strand	+
Start	2857	End	6983
Name	OJ991007_13.0106.C5.o2.gs	Method	GENSCAN
Start	2857	End	6947
GI	none	Score	.77
Exons	2857..2908, 3170..3783, 3879..4007, 4248..4340, 4857..5062, 5541..5635, 6262..6476, 6559..6748, 6841..6947		

Seq. No.	20752	Seq. ID	OJ991007_13.0106.C5
Gene No.	43292	Strand	+
Start	2857	End	6983
Name	OJ991007_13.0106.C5.o1.np	Method	AAT/NAP
Start	3484	End	6950

GI 6006801 Score 1215  
 Exons 3484..3783, 3879..4007, 4090..4146, 4248..4340, 4857..5062, 5541..5635, 6262..6476, 6559..6757, 6850..6950  
 GI Descrip. (AF156783) apyrase [Arabidopsis thaliana]

Seq. No. 20752 Seq. ID OJ991007\_13.0106.C5  
 Gene No. 43292 Strand +  
 Start 2857 End 6983  
 Name OJ991007\_13.0106.C5.o1.gp Method AAT/GAP  
 Start 4290 End 6394  
 GI uC-osflcyp101a05b1 Score 878  
 Exons 4290..4340, 4857..5062, 5541..5635, 6262..6394  
 GI Descrip. '6002631/gb|AAF00071.1|AF093604\_1 9.0e-32 (AF093604) apyrase [Arabidopsis thaliana]'

Seq. No. 20752 Seq. ID OJ991007\_13.0106.C5  
 Gene No. 43292 Strand +  
 Start 2857 End 6983  
 Name OJ991007\_13.0106.C5.o2.gp Method AAT/GAP  
 Start 6451 End 6983  
 GI 702910 Score 667  
 Exons 6451..6476, 6559..6748, 6841..6983  
 GI Descrip. 6002631/gb|AAF00071.1|AF093604\_1 9.0e-32 (AF093604) apyrase [Arabidopsis thaliana]

Seq. No. 20752 Seq. ID OJ991007\_13.0106.C5  
 Gene No. 43293 Strand +  
 Start 12093 End 12952  
 Name OJ991007\_13.0106.C5.o3.np Method AAT/NAP  
 Start 12093 End 12952  
 GI 5922623 Score 244  
 Exons 12093..12177, 12554..12706, 12874..12952  
 GI Descrip. (AP000492) hypothetical protein [Oryza sativa]  
 gi|6016856|dbj|BAA85199.1| (AP000570) hypothetical protein [Oryza sativa]

Seq. No. 20752 Seq. ID OJ991007\_13.0106.C5  
 Gene No. 43294 Strand -  
 Start 45 End 794  
 Name OJ991007\_13.0106.C5.o1.gs Method GENSCAN  
 Start 45 End 794  
 GI none Score .92  
 Exons 45..794

Seq. No. 20752 Seq. ID OJ991007\_13.0106.C5  
 Gene No. 43295 Strand -  
 Start 6283 End 12619  
 Name OJ991007\_13.0106.C5.o2.tm Method TBLASTX:Maize  
 Start 309 End 497  
 GI none Score 64  
 Exons 309..350, 309..380, 316..366, 400..492, 402..497

Seq. No. 20752 Seq. ID OJ991007\_13.0106.C5  
 Gene No. 43295 Strand -  
 Start 6283 End 12619  
 Name OJ991007\_13.0106.C5.o1.tm Method TBLASTX:Maize  
 Start 3487 End 6947

GI	none	Score	36
Exons	3487..3513, 3642..3782, 3643..3786, 3679..3786, 3863..4012, 3876..4016, 4089..4148, 4089..4160, 4090..4149, 4238..4342, 4246..4341, 4248..4343, 4846..5058, 4853..5062, 4857..5060, 5524..5637, 5535..5645, 6256..6477, 6261..6476, 6261..6584, 6262..6477, 6540..6749, 6550..6753, 6553..6771, 6839..6928, 6840..6929, 6847..6930, 6849..6947		

Seq. No.	20752	Seq. ID	OJ991007_13.0106.C5
Gene No.	43295	Strand	-
Start	6283	End	12619
Name	OJ991007_13.0106.C5.o2.tw	Method	TBLASTX:Wheat
Start	3670	End	4140
GI	none	Score	137
Exons	3670..3786, 3672..3803, 3881..4048, 3885..4016, 4090..4140		

Seq. No.	20752	Seq. ID	OJ991007_13.0106.C5
Gene No.	43295	Strand	-
Start	6283	End	12619
Name	OJ991007_13.0106.C5.o2.ts	Method	TBLASTX:Soybean
Start	3672	End	4343
GI	none	Score	136
Exons	3672..3773, 3673..3774, 3884..4012, 3885..4016, 4089..4163, 4090..4149, 4248..4343, 4248..4343		

Seq. No.	20752	Seq. ID	OJ991007_13.0106.C5
Gene No.	43295	Strand	-
Start	6283	End	12619
Name	OJ991007_13.0106.C5.o1.tc	Method	TBLASTX:Cress
Start	3673	End	4163
GI	none	Score	137
Exons	3673..3786, 3675..3776, 3863..4012, 3876..4016, 4089..4163, 4090..4149		

Seq. No.	20752	Seq. ID	OJ991007_13.0106.C5
Gene No.	43295	Strand	-
Start	6283	End	12619
Name	OJ991007_13.0106.C5.o1.ts	Method	TBLASTX:Soybean
Start	4853	End	6946
GI	none	Score	51
Exons	4853..4897, 4853..5062, 4857..5060, 4934..5065, 5524..5586, 6261..6371, 6287..6361, 6363..6476, 6369..6491, 6370..6477, 6540..6752, 6541..6753, 6550..6753, 6602..6757, 6675..6776, 6840..6944, 6857..6946, 6857..6943		

Seq. No.	20752	Seq. ID	OJ991007_13.0106.C5
Gene No.	43295	Strand	-
Start	6283	End	12619
Name	OJ991007_13.0106.C5.o2.np	Method	AAT/NAP
Start	6283	End	9608
GI	2388583	Score	163
Exons	6283..6315, 7951..8175, 9587..9608		
GI Descrip.	(AC000098) Similar to Synechocystis hypothetical protein (gb D90908). [Arabidopsis thaliana]		

Seq. No.	20752	Seq. ID	OJ991007_13.0106.C5
Gene No.	43295	Strand	-

Start	6283	End	12619
Name	OJ991007_13.0106.C5.o3.gs	Method	GENSCAN
Start	7874	End	12619
GI	none	Score	.66
Exons	7874..8454, 8645..8745, 8995..9186, 9471..9588, 10528..10573, 12126..12296, 12533..12619		

Seq. No.	20752	Seq. ID	OJ991007_13.0106.C5
Gene No.	43295	Strand	-
Start	6283	End	12619
Name	OJ991007_13.0106.C5.o1.tw	Method	TBLASTX:Wheat
Start	7946	End	8720
GI	none	Score	89
Exons	7946..8017, 7949..8173, 7950..8084, 8640..8720, 8649..8699		

Seq. No.	20753	Seq. ID	OJ991007_13.0106.C6
Gene No.	43296	Strand	+
Start	245	End	3651
Name	OJ991007_13.0106.C6.o1.gs	Method	GENSCAN
Start	245	End	3651
GI	none	Score	.56
Exons	245..384, 2328..2399, 3574..3651		

Seq. No.	20753	Seq. ID	OJ991007_13.0106.C6
Gene No.	43297	Strand	+
Start	5137	End	6486
Name	OJ991007_13.0106.C6.o2.gs	Method	GENSCAN
Start	5137	End	6468
GI	none	Score	.65
Exons	5137..5172, 6334..6468		

Seq. No.	20753	Seq. ID	OJ991007_13.0106.C6
Gene No.	43297	Strand	+
Start	5137	End	6486
Name	OJ991007_13.0106.C6.o1.tm	Method	TBLASTX:Maize
Start	5590	End	6024
GI	none	Score	256
Exons	5590..5922, 5603..5770, 5605..5772, 5628..5783, 5947..6024		

Seq. No.	20753	Seq. ID	OJ991007_13.0106.C6
Gene No.	43297	Strand	+
Start	5137	End	6486
Name	OJ991007_13.0106.C6.o1.tw	Method	TBLASTX:Wheat
Start	5749	End	6117
GI	none	Score	305
Exons	5749..6117, 5994..6116		

Seq. No.	20753	Seq. ID	OJ991007_13.0106.C6
Gene No.	43297	Strand	+
Start	5137	End	6486
Name	OJ991007_13.0106.C6.o2.tm	Method	TBLASTX:Maize
Start	6195	End	6486
GI	none	Score	166
Exons	6195..6308, 6196..6393, 6250..6381, 6388..6486		

Seq. No.	20754	Seq. ID	OJ991007_13.0106.C7
Gene No.	43298	Strand	+

Start	5873	End	7489
Name	OJ991007_13.0106.C7.o2.gs	Method	GENSCAN
Start	5873	End	7489
GI	none	Score	.85
Exons	5873..6041, 6122..6441, 6944..7489		

Seq. No.	20754	Seq. ID	OJ991007_13.0106.C7
Gene No.	43299	Strand	+
Start	10157	End	19006
Name	OJ991007_13.0106.C7.o4.gs	Method	GENSCAN
Start	10157	End	18389
GI	none	Score	.77
Exons	10157..10341, 10554..10756, 11359..11422, 11645..11690, 12961..13113, 13213..13770, 13877..13999, 14215..14443, 14791..14863, 15092..15428, 15600..15684, 15738..17251, 17335..17350, 17442..17695, 17871..18389		

Seq. No.	20754	Seq. ID	OJ991007_13.0106.C7
Gene No.	43299	Strand	+
Start	10157	End	19006
Name	OJ991007_13.0106.C7.o3.gp	Method	AAT/GAP
Start	13314	End	13776
GI	LIB3434-023-P1-K1-C6	Score	875
Exons	13314..13776		
GI Descrip.	'1296955/emb CAA64683  7.0e-16 (X95402) duplicated domain structure protein [Oryza sativa]'		

Seq. No.	20754	Seq. ID	OJ991007_13.0106.C7
Gene No.	43299	Strand	+
Start	10157	End	19006
Name	OJ991007_13.0106.C7.o2.np	Method	AAT/NAP
Start	13748	End	19006
GI	6069646	Score	2703
Exons	13748..13770, 16939..17757, 18023..19006		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	20754	Seq. ID	OJ991007_13.0106.C7
Gene No.	43299	Strand	+
Start	10157	End	19006
Name	OJ991007_13.0106.C7.o4.gp	Method	AAT/GAP
Start	13845	End	14764
GI	288_9.R1084	Score	867
Exons	13845..13999, 14215..14443, 14526..14764		
GI Descrip.	'1658313/emb CAA70174  1.0e-102 (Y08987) osr40g2 [Oryza sativa]'		

Seq. No.	20754	Seq. ID	OJ991007_13.0106.C7
Gene No.	43300	Strand	+
Start	23610	End	25866
Name	OJ991007_13.0106.C7.o5.gp	Method	AAT/GAP
Start	23610	End	25713
GI	288_1.R1084	Score	4157
Exons	23610..25713		
GI Descrip.	'1658313/emb CAA70174  0.0e+00 (Y08987) osr40g2 [Oryza sativa]'		

Seq. No.	20754	Seq. ID	OJ991007_13.0106.C7
Gene No.	43300	Strand	+
Start	23610	End	25866
Name	OJ991007_13.0106.C7.o3.np	Method	AAT/NAP
Start	24256	End	25651
GI	1658313	Score	1778
Exons	24256..24414, 24507..24629, 24737..25132, 25211..25333, 25424..25651		
GI Descrip.	(Y08987) osr40g2 [Oryza sativa]		

Seq. No.	20754	Seq. ID	OJ991007_13.0106.C7
Gene No.	43300	Strand	+
Start	23610	End	25866
Name	OJ991007_13.0106.C7.o6.gs	Method	GENSCAN
Start	24256	End	25866
GI	none	Score	.91
Exons	24256..24414, 24507..24629, 24659..25132, 25211..25333, 25424..25652, 25658..25866		

Seq. No.	20754	Seq. ID	OJ991007_13.0106.C7
Gene No.	43301	Strand	-
Start	28	End	1723
Name	OJ991007_13.0106.C7.o1.np	Method	AAT/NAP
Start	28	End	1723
GI	6907086	Score	1178
Exons	28..493, 722..884, 944..1723		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	20754	Seq. ID	OJ991007_13.0106.C7
Gene No.	43301	Strand	-
Start	28	End	1723
Name	OJ991007_13.0106.C7.o1.gs	Method	GENSCAN
Start	978	End	1265
GI	none	Score	.78
Exons	978..1265		

Seq. No.	20754	Seq. ID	OJ991007_13.0106.C7
Gene No.	43302	Strand	-
Start	7376	End	7820
Name	OJ991007_13.0106.C7.o2.gp	Method	AAT/GAP
Start	7376	End	7820
GI	none	Score	712
Exons	7376..7820		

Seq. No.	20754	Seq. ID	OJ991007_13.0106.C7
Gene No.	43303	Strand	-
Start	8248	End	9759
Name	OJ991007_13.0106.C7.o3.gs	Method	GENSCAN
Start	8248	End	9759
GI	none	Score	.51
Exons	8248..8342, 8811..8926, 9409..9609, 9626..9759		

Seq. No.	20754	Seq. ID	OJ991007_13.0106.C7
Gene No.	43304	Strand	-
Start	26371	End	27193
Name	OJ991007_13.0106.C7.o1.tc	Method	TBLASTX:Cress



Start	5900	End	6982
GI	none	Score	209
Exons	5900..6052, 5902..6051, 6075..6356, 6115..6360, 6932..6982		

Seq. No.	20754	Seq. ID	OJ991007_13.0106.C7
Gene No.	43304	Strand	-
Start	26371	End	27193
Name	OJ991007_13.0106.C7.o5.tw	Method	TBLASTX:Wheat
Start	5900	End	10297
GI	none	Score	189
Exons	5900..6040, 5902..6039, 10190..10297		

Seq. No.	20754	Seq. ID	OJ991007_13.0106.C7
Gene No.	43304	Strand	-
Start	26371	End	27193
Name	OJ991007_13.0106.C7.o2.ts	Method	TBLASTX:Soybean
Start	5900	End	6360
GI	none	Score	192
Exons	5900..6046, 5902..5928, 5986..6045, 6115..6270, 6120..6251, 6270..6356, 6271..6360		

Seq. No.	20754	Seq. ID	OJ991007_13.0106.C7
Gene No.	43304	Strand	-
Start	26371	End	27193
Name	OJ991007_13.0106.C7.o3.tm	Method	TBLASTX:Maize
Start	5918	End	6982
GI	none	Score	164
Exons	5918..6046, 5920..6081, 6115..6282, 6120..6299, 6276..6356, 6277..6360, 6938..6982		

Seq. No.	20754	Seq. ID	OJ991007_13.0106.C7
Gene No.	43304	Strand	-
Start	26371	End	27193
Name	OJ991007_13.0106.C7.o2.tw	Method	TBLASTX:Wheat
Start	6130	End	6360
GI	none	Score	188
Exons	6130..6252, 6135..6275, 6267..6356, 6268..6360		

Seq. No.	20754	Seq. ID	OJ991007_13.0106.C7
Gene No.	43304	Strand	-
Start	26371	End	27193
Name	OJ991007_13.0106.C7.o1.tm	Method	TBLASTX:Maize
Start	12724	End	25659
GI	none	Score	175
Exons	12724..12891, 12762..12890, 12765..12890, 12766..12891, 12969..13130, 12969..13115, 12973..13116, 12988..13116, 13211..13270, 13211..13270, 13212..13304, 13212..13433, 13212..13304, 13212..13430, 13213..13434, 13213..13434, 13394..13444, 13394..13441, 13614..13751, 13638..13733, 13665..13769, 13666..13770, 13666..13770, 13668..13769, 13862..14002, 13862..14002, 13874..14002, 13874..13999, 14201..14272, 14213..14335, 14213..14335, 14214..14315, 14214..14342, 14214..14456, 14215..14442, 14215..14442, 14379..14441, 14390..14449, 14391..14453, 24267..24413, 24268..24414, 24322..24414, 24357..24413, 24482..24637, 24497..24637, 24498..24638, 24498..24647, 24700..24807, 24727..24963, 24728..24964, 24736..24978, 24737..25000,		

24994..25140, 24995..25132, 25015..25131, 25016..25132,  
 25208..25333, 25208..25336, 25211..25336, 25211..25336,  
 25251..25337, 25423..25659, 25423..25554, 25424..25651,  
 25424..25651, 25597..25650

Seq. No.	20754	Seq. ID	OJ991007_13.0106.C7
Gene No.	43304	Strand	-
Start	26371	End	27193
Name	OJ991007_13.0106.C7.o1.tw	Method	TBLASTX:Wheat
Start	12766	End	25652
GI	none	Score	153
Exons	12766..12891, 12789..12890, 12966..13130, 12988..13116, 13212..13301, 13212..13292, 13213..13320, 13324..13434, 13329..13433, 13394..13444, 13639..13770, 13663..13770, 13862..14002, 13874..14002, 14201..14272, 14213..14320, 14214..14315, 14214..14321, 14215..14322, 14325..14441, 14326..14442, 14380..14451, 14393..14443, 24256..24303, 24273..24296, 24282..24413, 24286..24414, 24497..24637, 24498..24638, 24736..24843, 24737..24841, 24844..24975, 24845..24976, 24962..25132, 25045..25131, 25207..25335, 25208..25336, 25211..25336, 25281..25343, 25422..25475, 25423..25530, 25424..25531, 25535..25651, 25547..25651, 25569..25652		

Seq. No.	20754	Seq. ID	OJ991007_13.0106.C7
Gene No.	43304	Strand	-
Start	26371	End	27193
Name	OJ991007_13.0106.C7.o1.ts	Method	TBLASTX:Soybean
Start	12787	End	25651
GI	none	Score	79
Exons	12787..12891, 12789..12890, 12966..13115, 12973..13116, 13212..13289, 13213..13434, 13332..13433, 13648..13770, 13657..13770, 13865..14002, 13874..13999, 13876..14001, 14214..14342, 14215..14442, 24315..24413, 24322..24414, 24494..24637, 24498..24647, 24736..24960, 24737..24964, 25034..25132, 25207..25335, 25208..25336, 25211..25336, 25423..25551, 25424..25651		

Seq. No.	20754	Seq. ID	OJ991007_13.0106.C7
Gene No.	43304	Strand	-
Start	26371	End	27193
Name	OJ991007_13.0106.C7.o2.tc	Method	TBLASTX:Cress
Start	12972	End	25657
GI	none	Score	181
Exons	12972..13115, 12973..13116, 13213..13431, 13227..13433, 13867..14001, 13868..14002, 14215..14448, 14229..14339, 14379..14441, 24376..24414, 24497..24631, 24498..24647, 24737..24964, 24757..24963, 25210..25335, 25211..25336, 25424..25657, 25444..25548, 25594..25650		

Seq. No.	20754	Seq. ID	OJ991007_13.0106.C7
Gene No.	43304	Strand	-
Start	26371	End	27193
Name	OJ991007_13.0106.C7.o6.tm	Method	TBLASTX:Maize
Start	16319	End	16792
GI	none	Score	78
Exons	16319..16438, 16436..16792, 16441..16638		

Seq. No.	20754	Seq. ID	OJ991007_13.0106.C7
Gene No.	43304	Strand	-
Start	26371	End	27193
Name	OJ991007_13.0106.C7.o5.tm	Method	TBLASTX:Maize
Start	16796	End	17281
GI	none	Score	123
Exons	16796..16936, 16810..16920, 16960..17187, 16961..17203, 17174..17281, 17215..17274		
Seq. No.	20754	Seq. ID	OJ991007_13.0106.C7
Gene No.	43304	Strand	-
Start	26371	End	27193
Name	OJ991007_13.0106.C7.o6.tw	Method	TBLASTX:Wheat
Start	16859	End	17194
GI	none	Score	81
Exons	16859..17005, 16988..17194		
Seq. No.	20754	Seq. ID	OJ991007_13.0106.C7
Gene No.	43304	Strand	-
Start	26371	End	27193
Name	OJ991007_13.0106.C7.o2.tm	Method	TBLASTX:Maize
Start	17285	End	17963
GI	none	Score	89
Exons	17285..17746, 17289..17453, 17294..17884, 17473..17847, 17892..17963, 17892..17957		
Seq. No.	20754	Seq. ID	OJ991007_13.0106.C7
Gene No.	43304	Strand	-
Start	26371	End	27193
Name	OJ991007_13.0106.C7.o3.tw	Method	TBLASTX:Wheat
Start	17621	End	18044
GI	none	Score	190
Exons	17621..17884, 17626..17835, 17916..18044		
Seq. No.	20754	Seq. ID	OJ991007_13.0106.C7
Gene No.	43304	Strand	-
Start	26371	End	27193
Name	OJ991007_13.0106.C7.o7.tm	Method	TBLASTX:Maize
Start	17975	End	18245
GI	none	Score	143
Exons	17975..18097, 17979..18104, 18117..18245		
Seq. No.	20754	Seq. ID	OJ991007_13.0106.C7
Gene No.	43304	Strand	-
Start	26371	End	27193
Name	OJ991007_13.0106.C7.o4.tm	Method	TBLASTX:Maize
Start	18431	End	18991
GI	none	Score	323
Exons	18431..18766, 18502..18747, 18767..18991		
Seq. No.	20754	Seq. ID	OJ991007_13.0106.C7
Gene No.	43304	Strand	-
Start	26371	End	27193
Name	OJ991007_13.0106.C7.o4.tw	Method	TBLASTX:Wheat
Start	18527	End	18880
GI	none	Score	211

Exons 18527..18724, 18556..18720, 18845..18880

Seq. No.	20754	Seq. ID	OJ991007_13.0106.C7
Gene No.	43304	Strand	-
Start	26371	End	27193
Name	OJ991007_13.0106.C7.o7.gs	Method	GENSCAN
Start	26371	End	27193
GI	none	Score	.6
Exons	26371..26457, 27176..27193		

Seq. No.	20755	Seq. ID	OJ991007_13.0106.C8
Gene No.	43305	Strand	+
Start	1578	End	2274
Name	OJ991007_13.0106.C8.o1.gs	Method	GENSCAN
Start	1578	End	2274
GI	none	Score	.99
Exons	1578..1958, 2041..2274		

Seq. No.	20755	Seq. ID	OJ991007_13.0106.C8
Gene No.	43305	Strand	+
Start	1578	End	2274
Name	OJ991007_13.0106.C8.o1.np	Method	AAT/NAP
Start	1578	End	2271
GI	1658315	Score	1115
Exons	1578..1958, 2041..2271		
GI Descrip.	(Y08988) osr40g3 [Oryza sativa]		

Seq. No.	20755	Seq. ID	OJ991007_13.0106.C8
Gene No.	43306	Strand	-
Start	942	End	2523
Name	OJ991007_13.0106.C8.o1.gp	Method	AAT/GAP
Start	942	End	2523
GI	288_3.R1084	Score	3101
Exons	942..2523		
GI Descrip.	'5441880/dbj BAA82378.1  5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]'		

Seq. No.	20755	Seq. ID	OJ991007_13.0106.C8
Gene No.	43307	Strand	-
Start	2946	End	3308
Name	OJ991007_13.0106.C8.o2.tw	Method	TBLASTX:Wheat
Start	552	End	777
GI	none	Score	163
Exons	552..695, 555..695, 638..697, 717..773, 721..777		

Seq. No.	20755	Seq. ID	OJ991007_13.0106.C8
Gene No.	43307	Strand	-
Start	2946	End	3308
Name	OJ991007_13.0106.C8.o1.tm	Method	TBLASTX:Maize
Start	1679	End	2291
GI	none	Score	485
Exons	1679..1960, 1680..1961, 2040..2141, 2040..2291, 2041..2280, 2234..2284		

Seq. No.	20755	Seq. ID	OJ991007_13.0106.C8
Gene No.	43307	Strand	-

Start	2946	End	3308
Name	OJ991007_13.0106.C8.o1.ts	Method	TBLASTX:Soybean
Start	1722	End	2268
GI	none	Score	290
Exons	1722..1961, 1733..1960, 2040..2267, 2041..2268		
Seq. No.	20755	Seq. ID	OJ991007_13.0106.C8
Gene No.	43307	Strand	-
Start	2946	End	3308
Name	OJ991007_13.0106.C8.o1.tw	Method	TBLASTX:Wheat
Start	1731	End	2268
GI	none	Score	311
Exons	1731..1961, 1733..1960, 2040..2141, 2040..2147, 2041..2148, 2151..2264, 2152..2268		
Seq. No.	20755	Seq. ID	OJ991007_13.0106.C8
Gene No.	43307	Strand	-
Start	2946	End	3308
Name	OJ991007_13.0106.C8.o1.tc	Method	TBLASTX:Cress
Start	1796	End	2268
GI	none	Score	206
Exons	1796..1960, 1797..1961, 2041..2268, 2055..2264		
Seq. No.	20755	Seq. ID	OJ991007_13.0106.C8
Gene No.	43307	Strand	-
Start	2946	End	3308
Name	OJ991007_13.0106.C8.o2.gs	Method	GENSCAN
Start	2946	End	3308
GI	none	Score	.69
Exons	2946..3308		
Seq. No.	20756	Seq. ID	OJ991217_13.0118.C1
Gene No.	43308	Strand	+
Start	30	End	348
Name	OJ991217_13.0118.C1.o1.gs	Method	GENSCAN
Start	30	End	348
GI	none	Score	.84
Exons	30..92, 130..348		
Seq. No.	20756	Seq. ID	OJ991217_13.0118.C1
Gene No.	43309	Strand	-
Start	1	End	370
Name	OJ991217_13.0118.C1.o1.np	Method	AAT/NAP
Start	1	End	370
GI	4510417	Score	229
Exons	1..370		
GI Descrip.	(AC006929) putative homeodomain transcription factor [Arabidopsis thaliana]		
Seq. No.	20756	Seq. ID	OJ991217_13.0118.C1
Gene No.	43309	Strand	-
Start	1	End	370
Name	OJ991217_13.0118.C1.o1.tm	Method	TBLASTX:Maize
Start	2	End	370
GI	none	Score	179
Exons	2..175, 2..175, 7..180, 166..369, 182..370		

Seq. No.	20756	Seq. ID	OJ991217_13.0118.C1
Gene No.	43309	Strand	-
Start	1	End	370
Name	OJ991217_13.0118.C1.o1.ts	Method	TBLASTX:Soybean
Start	7	End	369
GI	none	Score	77
Exons	7..90, 11..91, 199..369, 227..364		
Seq. No.	20757	Seq. ID	OJ991217_13.0118.C2
Gene No.	43310	Strand	+
Start	1	End	120
Name	OJ991217_13.0118.C2.o1.np	Method	AAT/NAP
Start	1	End	120
GI	3236259	Score	106
Exons	1..120		
GI Descrip.	(AC004684) putative alcohol dehydrogenase [Arabidopsis thaliana]		
Seq. No.	20758	Seq. ID	OJ991217_13.0118.C3
Gene No.	43311	Strand	+
Start	1194	End	1457
Name	OJ991217_13.0118.C3.o2.gs	Method	GENSCAN
Start	1194	End	1457
GI	none	Score	.9
Exons	1194..1457		
Seq. No.	20758	Seq. ID	OJ991217_13.0118.C3
Gene No.	43312	Strand	-
Start	14	End	506
Name	OJ991217_13.0118.C3.o1.gs	Method	GENSCAN
Start	14	End	506
GI	none	Score	.51
Exons	14..506		
Seq. No.	20758	Seq. ID	OJ991217_13.0118.C3
Gene No.	43313	Strand	-
Start	2209	End	7952
Name	OJ991217_13.0118.C3.o3.gs	Method	GENSCAN
Start	2209	End	7111
GI	none	Score	.46
Exons	2209..2618, 3325..3411, 4117..4249, 6444..6487, 6687..6777, 6929..7111		
Seq. No.	20758	Seq. ID	OJ991217_13.0118.C3
Gene No.	43313	Strand	-
Start	2209	End	7952
Name	OJ991217_13.0118.C3.o2.gp	Method	AAT/GAP
Start	6073	End	6782
GI	2311383	Score	790
Exons	6073..6365, 6444..6487, 6687..6782		
GI Descrip.	5478530/gb AAD43920.1 AF130441_1 2.0e-12 (AF130441) UVB-resistance protein UVR8 [Arabidopsis thaliana]		
Seq. No.	20758	Seq. ID	OJ991217_13.0118.C3
Gene No.	43313	Strand	-
Start	2209	End	7952
Name	OJ991217_13.0118.C3.o2.tm	Method	TBLASTX:Maize
Start	6081	End	6491

GI	none	Score	46
Exons	6081..6125, 6132..6152, 6133..6153, 6235..6366, 6243..6368, 6244..6366, 6257..6367, 6427..6489, 6435..6491, 6435..6488		

Seq. No.	20758	Seq. ID	OJ991217_13.0118.C3
Gene No.	43313	Strand	-
Start	2209	End	7952
Name	OJ991217_13.0118.C3.o1.ts	Method	TBLASTX:Soybean
Start	6234	End	7114
GI	none	Score	54
Exons	6234..6368, 6241..6369, 6243..6368, 6428..6490, 6430..6492, 6435..6491, 6688..6750, 6691..6780, 6871..7020, 6929..7114, 6930..7112, 6941..7048, 6942..7046, 6944..7063		

Seq. No.	20758	Seq. ID	OJ991217_13.0118.C3
Gene No.	43313	Strand	-
Start	2209	End	7952
Name	OJ991217_13.0118.C3.o1.tc	Method	TBLASTX:Cress
Start	6243	End	6495
GI	none	Score	114
Exons	6243..6368, 6244..6369, 6430..6495, 6435..6491		

Seq. No.	20758	Seq. ID	OJ991217_13.0118.C3
Gene No.	43313	Strand	-
Start	2209	End	7952
Name	OJ991217_13.0118.C3.o1.np	Method	AAT/NAP
Start	6267	End	7952
GI	5478530	Score	145
Exons	6267..6365, 6444..6487, 6687..6777, 6929..7126, 7900..7952		
GI Descrip.	(AF130441) UVB-resistance protein UVR8 [Arabidopsis thaliana]		

Seq. No.	20758	Seq. ID	OJ991217_13.0118.C3
Gene No.	43313	Strand	-
Start	2209	End	7952
Name	OJ991217_13.0118.C3.o1.tm	Method	TBLASTX:Maize
Start	6688	End	7117
GI	none	Score	264
Exons	6688..6753, 6938..7114, 6939..7112, 6941..7069, 6944..7117, 6945..7115		

Seq. No.	20759	Seq. ID	OJ991217_13.0118.C4
Gene No.	43314	Strand	-
Start	166	End	678
Name	OJ991217_13.0118.C4.o2.ts	Method	TBLASTX:Soybean
Start	166	End	678
GI	none	Score	49
Exons	166..210, 167..208, 265..384, 268..342, 496..678, 497..673		

Seq. No.	20759	Seq. ID	OJ991217_13.0118.C4
Gene No.	43314	Strand	-
Start	166	End	678
Name	OJ991217_13.0118.C4.o2.tm	Method	TBLASTX:Maize
Start	496	End	678
GI	none	Score	223
Exons	496..678, 497..676		

Seq. No.	20759	Seq. ID	OJ991217_13.0118.C4
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Gene No.	43315	Strand	
Start	909	End	2197
Name	OJ991217_13.0118.C4.ol.tm	Method	TBLASTX:Maize
Start	909	End	1283
GI	none	Score	92
Exons	909..962, 909..956, 910..966, 917..964, 1002..1121, 1004..1123, 1033..1122, 1037..1138, 1198..1281, 1212..1283, 1214..1282		

Seq. No.	20759	Seq. ID	OJ991217_13.0118.C4
Gene No.	43315	Strand	
Start	909	End	2197
Name	OJ991217_13.0118.C4.ol.ts	Method	TBLASTX:Soybean
Start	909	End	2197
GI	none	Score	64
Exons	909..953, 910..954, 1002..1121, 1016..1138, 1031..1138, 1217..1291, 1218..1289, 2032..2055, 2035..2088, 2107..2196, 2108..2197		

Seq. No.	20760	Seq. ID	OJ991217_13.0118.C5
Gene No.	43316	Strand	+
Start	569	End	795
Name	OJ991217_13.0118.C5.ol.gs	Method	GENSCAN
Start	569	End	795
GI	none	Score	.45
Exons	569..655, 712..795		

Seq. No.	20761	Seq. ID	OJ991217_13.0118.C6
Gene No.	43317	Strand	+
Start	265	End	511
Name	OJ991217_13.0118.C6.ol.gs	Method	GENSCAN
Start	265	End	511
GI	none	Score	.97
Exons	265..511		

Seq. No.	20761	Seq. ID	OJ991217_13.0118.C6
Gene No.	43318	Strand	-
Start	1	End	677
Name	OJ991217_13.0118.C6.ol.np	Method	AAT/NAP
Start	1	End	677
GI	5852180	Score	438
Exons	1..39, 255..677		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	20762	Seq. ID	OJ991217_13.0118.C7
Gene No.	43319	Strand	-
Start	1518	End	1647
Name	OJ991217_13.0118.C7.ol.np	Method	AAT/NAP
Start	1518	End	1647
GI	5852084	Score	79
Exons	1518..1647		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	20762	Seq. ID	OJ991217_13.0118.C7
Gene No.	43320	Strand	-
Start	1605	End	9628
Name	OJ991217_13.0118.C7.ol.gp	Method	AAT/GAP
Start	1605	End	4450



GI	none	Score	1853
Exons	1605..1927, 3026..3077, 3161..3221, 3309..3478, 3811..3898, 4163..4450		

Seq. No.	20762	Seq. ID	OJ991217_13.0118.C7
Gene No.	43320	Strand	-
Start	1605	End	9628
Name	OJ991217_13.0118.C7.o2.gs	Method	GENSCAN
Start	1830	End	9628
GI	none	Score	.51
Exons	1830..1927, 3161..3221, 3309..3478, 3811..3898, 4197..4491, 6195..6297, 7111..7171, 7967..8194, 8280..8351, 9387..9628		

Seq. No.	20762	Seq. ID	OJ991217_13.0118.C7
Gene No.	43320	Strand	-
Start	1605	End	9628
Name	OJ991217_13.0118.C7.o1.tm	Method	TBLASTX:Maize
Start	3022	End	4502
GI	none	Score	53
Exons	3022..3078, 3025..3078, 3138..3221, 3160..3186, 3190..3225, 3315..3452, 3316..3438, 3332..3439, 3461..3511, 3822..3899, 3826..3885, 4389..4439, 4457..4501, 4458..4502		

Seq. No.	20763	Seq. ID	OJ991217_13.0118.C8
Gene No.	43321	Strand	-
Start	1093	End	4999
Name	OJ991217_13.0118.C8.o1.np	Method	AAT/NAP
Start	1093	End	4993
GI	6539553	Score	6324
Exons	1093..4993		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi 6539590 dbj BAA88206.1  (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	20763	Seq. ID	OJ991217_13.0118.C8
Gene No.	43321	Strand	-
Start	1093	End	4999
Name	OJ991217_13.0118.C8.o2.tw	Method	TBLASTX:Wheat
Start	1229	End	1704
GI	none	Score	347
Exons	1229..1615, 1267..1614, 1624..1704, 1630..1704		

Seq. No.	20763	Seq. ID	OJ991217_13.0118.C8
Gene No.	43321	Strand	-
Start	1093	End	4999
Name	OJ991217_13.0118.C8.o4.ts	Method	TBLASTX:Soybean
Start	1357	End	1698
GI	none	Score	88
Exons	1357..1566, 1378..1566, 1585..1698, 1592..1618		

Seq. No.	20763	Seq. ID	OJ991217_13.0118.C8
Gene No.	43321	Strand	-
Start	1093	End	4999
Name	OJ991217_13.0118.C8.o5.tm	Method	TBLASTX:Maize
Start	1577	End	1893
GI	none	Score	151

Exons 1577..1885, 1579..1893, 1594..1893

Seq. No.	20763	Seq. ID	OJ991217_13.0118.C8
Gene No.	43321	Strand	-
Start	1093	End	4999
Name	OJ991217_13.0118.C8.o2.ts	Method	TBLASTX:Soybean
Start	1711	End	2056
GI	none	Score	113
Exons	1711..2055, 1856..2056		

Seq. No.	20763	Seq. ID	OJ991217_13.0118.C8
Gene No.	43321	Strand	-
Start	1093	End	4999
Name	OJ991217_13.0118.C8.o3.tw	Method	TBLASTX:Wheat
Start	1909	End	2453
GI	none	Score	50
Exons	1909..2049, 1919..2050, 2109..2453, 2133..2306		

Seq. No.	20763	Seq. ID	OJ991217_13.0118.C8
Gene No.	43321	Strand	-
Start	1093	End	4999
Name	OJ991217_13.0118.C8.o3.tm	Method	TBLASTX:Maize
Start	1990	End	2454
GI	none	Score	42
Exons	1990..2064, 2079..2453, 2092..2202, 2136..2318, 2272..2454		

Seq. No.	20763	Seq. ID	OJ991217_13.0118.C8
Gene No.	43321	Strand	-
Start	1093	End	4999
Name	OJ991217_13.0118.C8.o1.ts	Method	TBLASTX:Soybean
Start	2124	End	2588
GI	5509260	Score	44
Exons	2124..2588, 2155..2202, 2275..2370, 2419..2487		
GI Descrip.	-		

Seq. No.	20763	Seq. ID	OJ991217_13.0118.C8
Gene No.	43321	Strand	-
Start	1093	End	4999
Name	OJ991217_13.0118.C8.o1.tc	Method	TBLASTX:Cress
Start	2235	End	2495
GI	none	Score	62
Exons	2235..2495, 2416..2493		

Seq. No.	20763	Seq. ID	OJ991217_13.0118.C8
Gene No.	43321	Strand	-
Start	1093	End	4999
Name	OJ991217_13.0118.C8.o1.tw	Method	TBLASTX:Wheat
Start	2508	End	3255
GI	none	Score	208
Exons	2508..2756, 2508..2747, 2525..2755, 2776..3255, 2814..3248		

Seq. No.	20763	Seq. ID	OJ991217_13.0118.C8
Gene No.	43321	Strand	-
Start	1093	End	4999
Name	OJ991217_13.0118.C8.o3.ts	Method	TBLASTX:Soybean
Start	2925	End	3311
GI	none	Score	81

Exons 2925..3086, 3087..3311, 3102..3296

Seq. No.	20763	Seq. ID	OJ991217_13.0118.C8
Gene No.	43321	Strand	-
Start	1093	End	4999
Name	OJ991217_13.0118.C8.o4.tm	Method	TBLASTX:Maize
Start	3099	End	3533
GI	none	Score	78
Exons	3099..3533, 3193..3324		

Seq. No.	20763	Seq. ID	OJ991217_13.0118.C8
Gene No.	43321	Strand	-
Start	1093	End	4999
Name	OJ991217_13.0118.C8.o5.tw	Method	TBLASTX:Wheat
Start	3257	End	3458
GI	none	Score	130
Exons	3257..3400, 3257..3454, 3258..3458, 3258..3455		

Seq. No.	20763	Seq. ID	OJ991217_13.0118.C8
Gene No.	43321	Strand	-
Start	1093	End	4999
Name	OJ991217_13.0118.C8.o5.ts	Method	TBLASTX:Soybean
Start	3321	End	3707
GI	none	Score	89
Exons	3321..3569, 3552..3707		

Seq. No.	20763	Seq. ID	OJ991217_13.0118.C8
Gene No.	43321	Strand	-
Start	1093	End	4999
Name	OJ991217_13.0118.C8.o1.tm	Method	TBLASTX:Maize
Start	3734	End	4055
GI	none	Score	218
Exons	3734..3946, 3735..3950, 3735..3947, 3736..3951, 3942..4055, 3943..4047		

Seq. No.	20763	Seq. ID	OJ991217_13.0118.C8
Gene No.	43321	Strand	-
Start	1093	End	4999
Name	OJ991217_13.0118.C8.o2.tm	Method	TBLASTX:Maize
Start	4551	End	4864
GI	none	Score	259
Exons	4551..4841, 4552..4842, 4553..4864, 4559..4846		

Seq. No.	20763	Seq. ID	OJ991217_13.0118.C8
Gene No.	43321	Strand	-
Start	1093	End	4999
Name	OJ991217_13.0118.C8.o4.tw	Method	TBLASTX:Wheat
Start	4613	End	4999
GI	none	Score	223
Exons	4613..4999, 4614..4988		

Seq. No.	20764	Seq. ID	OJ991217_13.0118.C9
Gene No.	43322	Strand	+
Start	1	End	2373
Name	OJ991217_13.0118.C9.o1.np	Method	AAT/NAP
Start	1	End	2373
GI	6721516	Score	272

Exons 1..49, 612..920, 2177..2373  
GI Descrip. (AP001072) hypothetical protein [Oryza sativa]

Seq. No. 20764 Seq. ID OJ991217\_13.0118.C9  
Gene No. 43322 Strand +  
Start 1 End 2373  
Name OJ991217\_13.0118.C9.o2.np Method AAT/NAP  
Start 293 End 2246  
GI 4680186 Score 218  
Exons 293..339, 1533..1617, 1804..1887, 2015..2246  
GI Descrip. (AF111709) unknown [Oryza sativa subsp. indica]

Seq. No. 20764 Seq. ID OJ991217\_13.0118.C9  
Gene No. 43323 Strand -  
Start 1792 End 2175  
Name OJ991217\_13.0118.C9.o1.gp Method AAT/GAP  
Start 1792 End 2175  
GI uC-osflcyp033a04b1 Score 669  
Exons 1792..2175  
GI Descrip. '6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic  
DNA, chromosome 1, clone:P0711E10'

Seq. No. 20765 Seq. ID OJ991217\_13.0118.C10  
Gene No. 43324 Strand +  
Start 482 End 856  
Name OJ991217\_13.0118.C10.o1.np Method AAT/NAP  
Start 482 End 856  
GI 6815053 Score 434  
Exons 482..856  
GI Descrip. (AP001080) hypothetical protein [Oryza sativa]

Seq. No. 20766 Seq. ID OJ991217\_13.0118.C11  
Gene No. 43325 Strand +  
Start 498 End 9889  
Name OJ991217\_13.0118.C11.o1.gs Method GENSCAN  
Start 498 End 9889  
GI none Score .42  
Exons 498..708, 1221..1353, 1594..1834, 1979..2025, 2379..2554,  
3452..3511, 4753..4875, 7811..7885, 8557..8906, 9348..9519,  
9646..9785, 9883..9889

Seq. No. 20766 Seq. ID OJ991217\_13.0118.C11  
Gene No. 43326 Strand +  
Start 12879 End 23919  
Name OJ991217\_13.0118.C11.o3.gs Method GENSCAN  
Start 12879 End 22940  
GI none Score .71  
Exons 12879..12919, 12985..13174, 13897..13966, 13985..14111,  
14309..14642, 15849..15949, 18707..19895, 20629..20999,  
22145..22205, 22350..22631, 22764..22940

Seq. No. 20766 Seq. ID OJ991217\_13.0118.C11  
Gene No. 43326 Strand +  
Start 12879 End 23919  
Name OJ991217\_13.0118.C11.o1.np Method AAT/NAP  
Start 19613 End 22709  
GI 4510417 Score 438

Exons 19613..19760, 19791..19895, 20629..20999, 22145..22205,  
22350..22709  
GI Descrip. (AC006929) putative homeodomain transcription factor  
[Arabidopsis thaliana]

Seq. No. 20766 Seq. ID OJ991217\_13.0118.C11  
Gene No. 43326 Strand +  
Start 12879 End 23919  
Name OJ991217\_13.0118.C11.o2.np Method AAT/NAP  
Start 20649 End 23919  
GI 280630 Score 47  
Exons 20649..20670, 22559..22709, 23757..23919  
GI Descrip. larval glue protein Lgp-1 precursor - fruit fly (Drosophila  
virilis) gi|1085175|pir|S50126 glue protein lgp-1 - fruit fly  
(Drosophila virilis) gi|433482|emb|CAA53796| (X76203) major  
larval glue protein [Drosophila virilis] gi|450903|emb|CAA82672|  
(Z29565) glue protein [Drosophila virilis]  
gi|1091592|prf||2021274B glue protein [Drosophila virilis]

Seq. No. 20766 Seq. ID OJ991217\_13.0118.C11  
Gene No. 43327 Strand -  
Start 10758 End 11642  
Name OJ991217\_13.0118.C11.o2.gs Method GENSCAN  
Start 10758 End 11642  
GI none Score .61  
Exons 10758..10819, 10933..11081, 11434..11642

Seq. No. 20766 Seq. ID OJ991217\_13.0118.C11  
Gene No. 43328 Strand -  
Start 23946 End 24054  
Name OJ991217\_13.0118.C11.o1.tm Method TBLASTX:Maize  
Start 19836 End 22391  
GI none Score 99  
Exons 19836..19907, 19836..19895, 19838..19906, 20628..20822,  
20629..20838, 20824..21000, 20829..21005, 20829..21014,  
20879..21013, 20899..21021, 22145..22213, 22146..22220,  
22347..22391

Seq. No. 20766 Seq. ID OJ991217\_13.0118.C11  
Gene No. 43328 Strand -  
Start 23946 End 24054  
Name OJ991217\_13.0118.C11.o1.ts Method TBLASTX:Soybean  
Start 20628 End 22469  
GI none Score 141  
Exons 20628..20777, 20635..20805, 20913..20999, 20914..21000,  
22146..22220, 22148..22207, 22347..22469, 22349..22399,  
22356..22448

Seq. No. 20766 Seq. ID OJ991217\_13.0118.C11  
Gene No. 43328 Strand -  
Start 23946 End 24054  
Name OJ991217\_13.0118.C11.o2.tm Method TBLASTX:Maize  
Start 22392 End 22723  
GI none Score 107  
Exons 22392..22502, 22392..22478, 22393..22503, 22473..22616,  
22478..22621, 22479..22622, 22626..22655, 22629..22694,  
22655..22693, 22703..22723

Seq. No.	20766	Seq. ID	OJ991217_13.0118.C11
Gene No.	43328	Strand	-
Start	23946	End	24054
Name	OJ991217_13.0118.C11.o3.tm	Method	TBLASTX:Maize
Start	22730	End	22941
GI	none	Score	68
Exons	22730..22765, 22731..22769, 22760..22939, 22767..22940, 22826..22939, 22828..22941		

Seq. No.	20766	Seq. ID	OJ991217_13.0118.C11
Gene No.	43328	Strand	-
Start	23946	End	24054
Name	OJ991217_13.0118.C11.o4.gs	Method	GENSCAN
Start	23946	End	24054
GI	none	Score	.51
Exons	23946..24054		

Seq. No.	20767	Seq. ID	OJ991217_13.0118.C12
Gene No.	43329	Strand	+
Start	4346	End	4700
Name	OJ991217_13.0118.C12.o1.np	Method	AAT/NAP
Start	4346	End	4700
GI	6721512	Score	193
Exons	4346..4451, 4478..4618, 4661..4700		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	20767	Seq. ID	OJ991217_13.0118.C12
Gene No.	43330	Strand	-
Start	4335	End	6806
Name	OJ991217_13.0118.C12.o2.gs	Method	GENSCAN
Start	4335	End	6806
GI	none	Score	.42
Exons	4335..4397, 4779..4977, 6258..6521, 6736..6806		

Seq. No.	20768	Seq. ID	OJ991217_13.0118.C13
Gene No.	43331	Strand	+
Start	1	End	6025
Name	OJ991217_13.0118.C13.o1.np	Method	AAT/NAP
Start	1	End	5836
GI	2244797	Score	234
Exons	1..59, 5137..5196, 5292..5454, 5540..5702, 5769..5836		
GI Descrip.	(Z97336) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	20768	Seq. ID	OJ991217_13.0118.C13
Gene No.	43331	Strand	+
Start	1	End	6025
Name	OJ991217_13.0118.C13.o1.gp	Method	AAT/GAP
Start	3766	End	5645
GI	15298_1.R1084	Score	1384
Exons	3766..4114, 4200..4274, 5119..5196, 5292..5454, 5540..5645		
GI Descrip.	'2244797/emb CAB10220.1 .2.0e-29 (Z97336) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	20768	Seq. ID	OJ991217_13.0118.C13
Gene No.	43331	Strand	+
Start	1	End	6025

Name	OJ991217_13.0118.C13.o1.tw	Method	TBLASTX:Wheat
Start	3959	End	4097
GI	none	Score	188
Exons	3959..4021, 3963..4097, 3963..4097		
Seq. No.	20768	Seq. ID	OJ991217_13.0118.C13
Gene No.	43331	Strand	+
Start	1	End	6025
Name	OJ991217_13.0118.C13.o2.gs	Method	GENSCAN
Start	3999	End	5839
GI	none	Score	.97
Exons	3999..4114, 4200..4274, 5292..5454, 5540..5839		
Seq. No.	20768	Seq. ID	OJ991217_13.0118.C13
Gene No.	43331	Strand	+
Start	1	End	6025
Name	OJ991217_13.0118.C13.o1.tm	Method	TBLASTX:Maize
Start	4023	End	6025
GI	none	Score	129
Exons	4023..4097, 4026..4112, 4198..4275, 4199..4237, 4241..4270, 5116..5160, 5117..5197, 5136..5198, 5136..5195, 5283..5510, 5289..5345, 5290..5508, 5537..5620, 5539..5640, 5723..5764, 5745..5834, 5747..5857, 5949..6020, 5972..6025		
Seq. No.	20768	Seq. ID	OJ991217_13.0118.C13
Gene No.	43331	Strand	+
Start	1	End	6025
Name	OJ991217_13.0118.C13.o1.tc	Method	TBLASTX:Cress
Start	5117	End	5620
GI	none	Score	92
Exons	5117..5197, 5290..5454, 5537..5620		
Seq. No.	20768	Seq. ID	OJ991217_13.0118.C13
Gene No.	43331	Strand	+
Start	1	End	6025
Name	OJ991217_13.0118.C13.o1.ts	Method	TBLASTX:Soybean
Start	5117	End	5620
GI	none	Score	92
Exons	5117..5197, 5262..5423, 5290..5454, 5537..5620		
Seq. No.	20769	Seq. ID	OJ991217_13.0118.C14
Gene No.	43332	Strand	+
Start	681	End	789
Name	OJ991217_13.0118.C14.o1.gs	Method	GENSCAN
Start	681	End	789
GI	none	Score	.55
Exons	681..789		
Seq. No.	20769	Seq. ID	OJ991217_13.0118.C14
Gene No.	43333	Strand	-
Start	552	End	3424
Name	OJ991217_13.0118.C14.o1.gp	Method	AAT/GAP
Start	552	End	3424
GI	153_1.R1084	Score	1965
Exons	552..849, 1076..1155, 1321..1391, 1462..1528, 1665..1733, 1846..1996, 2385..2460, 2936..3039, 3146..3242, 3315..3424		
GI Descrip.	'3334441/sp O22288 YI79_ARATH 8.0e-10 HYPOTHETICAL 47.9 KD		

PROTEIN T5I7.9 IN CHROMOSOME II >gi\_2642161 (AC003000)  
hypothetical protein [Arabidopsis thaliana]

Seq. No.	20769	Seq. ID	OJ991217_13.0118.C14
Gene No.	43333	Strand	-
Start	552	End	3424
Name	OJ991217_13.0118.C14.o1.tm	Method	TBLASTX:Maize
Start	1057	End	3404
GI	none	Score	102
Exons	1057..1155, 1062..1160, 1073..1162, 1075..1164, 1320..1391, 1324..1392, 1460..1528, 1461..1529, 1461..1529, 1462..1539, 1665..1736, 1667..1735, 1846..2010, 1847..1999, 1848..2015, 2371..2460, 2384..2461, 2927..3073, 2935..3039, 2936..3040, 3134..3217, 3135..3248, 3154..3243, 3312..3401, 3313..3402, 3315..3404		

Seq. No.	20769	Seq. ID	OJ991217_13.0118.C14
Gene No.	43333	Strand	-
Start	552	End	3424
Name	OJ991217_13.0118.C14.o2.gs	Method	GENSCAN
Start	1077	End	3039
GI	none	Score	.89
Exons	1077..1155, 1321..1391, 1462..1528, 1665..1733, 1846..1996, 2385..2460, 2936..3039		

Seq. No.	20769	Seq. ID	OJ991217_13.0118.C14
Gene No.	43333	Strand	-
Start	552	End	3424
Name	OJ991217_13.0118.C14.o1.np	Method	AAT/NAP
Start	1080	End	3424
GI	6225820	Score	1099
Exons	1080..1155, 1321..1391, 1462..1528, 1665..1733, 1846..1996, 2385..2460, 2936..3039, 3146..3242, 3315..3424		
GI Descrip.	DELTA 1-PYRROLINE-5-CARBOXYLATE SYNTHETASE (P5CS) [INCLUDES: GLUTAMATE 5-KINASE (GAMMA-GLUTAMYL KINASE) (GK); GAMMA-GLUTAMYL PHOSPHATE REDUCTASE (GPR) (GLUTAMATE-5-SEMIALDEHYDE DEHYDROGENASE) (GLUTAMYL-GAMMA-SEMIALDEHYDE... gi 2081612 dbj BAA19916  (D49714) delta1-pyrroline-5-carboxylate synthetase [Oryza sativa]		

Seq. No.	20769	Seq. ID	OJ991217_13.0118.C14
Gene No.	43333	Strand	-
Start	552	End	3424
Name	OJ991217_13.0118.C14.o2.tc	Method	TBLASTX:Cress
Start	1083	End	2048
GI	none	Score	70
Exons	1083..1136, 1087..1146, 1320..1391, 1321..1392, 1321..1392, 1459..1518, 1460..1531, 1461..1532, 1665..1736, 1667..1735, 1846..1998, 1848..2048, 1892..2038		

Seq. No.	20769	Seq. ID	OJ991217_13.0118.C14
Gene No.	43333	Strand	-
Start	552	End	3424
Name	OJ991217_13.0118.C14.o1.ts	Method	TBLASTX:Soybean
Start	1089	End	1735
GI	none	Score	63
Exons	1089..1136, 1096..1155, 1320..1391, 1321..1392, 1459..1518,		



1460..1492, 1474..1539, 1475..1552, 1667..1735

Seq. No.	20769	Seq. ID	OJ991217_13.0118.C14
Gene No.	43333	Strand	-
Start	552	End	3424
Name	OJ991217_13.0118.C14.o1.tw	Method	TBLASTX:Wheat
Start	1344	End	3010
GI	none	Score	78
Exons	1344..1391, 1345..1392, 1345..1392, 1459..1515, 1460..1495, 1460..1528, 1461..1529, 1461..1529, 1462..1539, 1667..1735, 1667..1735, 1846..2010, 1847..1999, 1848..2015, 2369..2461, 2371..2460, 2384..2461, 2385..2462, 2927..3010, 2930..3004, 2935..3009		

Seq. No.	20769	Seq. ID	OJ991217_13.0118.C14
Gene No.	43333	Strand	-
Start	552	End	3424
Name	OJ991217_13.0118.C14.o1.tc	Method	TBLASTX:Cress
Start	2380	End	3416
GI	none	Score	90
Exons	2380..2460, 2939..3040, 2940..3041, 2940..3041, 2941..3045, 3138..3248, 3139..3243, 3186..3254, 3312..3416, 3313..3393		

Seq. No.	20769	Seq. ID	OJ991217_13.0118.C14
Gene No.	43333	Strand	-
Start	552	End	3424
Name	OJ991217_13.0118.C14.o2.ts	Method	TBLASTX:Soybean
Start	3162	End	3413
GI	none	Score	104
Exons	3162..3248, 3163..3243, 3312..3413, 3313..3402		

Seq. No.	20770	Seq. ID	OJ991217_13.0118.C15
Gene No.	43334	Strand	+
Start	7627	End	8165
Name	OJ991217_13.0118.C15.o2.gp	Method	AAT/GAP
Start	7627	End	8165
GI	none	Score	1058
Exons	7627..8165		

Seq. No.	20770	Seq. ID	OJ991217_13.0118.C15
Gene No.	43335	Strand	+
Start	10036	End	10543
Name	OJ991217_13.0118.C15.o3.gp	Method	AAT/GAP
Start	10036	End	10543
GI	none	Score	684
Exons	10036..10101, 10242..10543		

Seq. No.	20770	Seq. ID	OJ991217_13.0118.C15
Gene No.	43336	Strand	+
Start	16716	End	17259
Name	OJ991217_13.0118.C15.o6.gp	Method	AAT/GAP
Start	16716	End	17259
GI	none	Score	607
Exons	16716..16918, 17022..17067, 17161..17259		

Seq. No.	20770	Seq. ID	OJ991217_13.0118.C15
Gene No.	43337	Strand	-

Start 1 End 6875  
 Name OJ991217\_13.0118.C15.o1.np Method AAT/NAP  
 Start 1 End 3460  
 GI 6225820 Score 1820  
 Exons 1..182, 308..385, 498..662, 801..951, 1513..1790, 1975..2136,  
 2227..2433, 2536..2607, 3401..3460  
 GI Descrip. DELTA 1-PYRROLINE-5-CARBOXYLATE SYNTHETASE (P5CS) [INCLUDES:  
 GLUTAMATE 5-KINASE (GAMMA-GLUTAMYL KINASE) (GK); GAMMA-GLUTAMYL  
 PHOSPHATE REDUCTASE (GPR) (GLUTAMATE-5-SEMIALDEHYDE  
 DEHYDROGENASE) (GLUTAMYL-GAMMA-SEMIALDEHYDE...  
 gi|2081612|dbj|BAA19916| (D49714) delta1-pyrroline-5-carboxylate  
 synthetase [Oryza sativa]

Seq. No. 20770 Seq. ID OJ991217\_13.0118.C15  
 Gene No. 43337 Strand -  
 Start 1 End 6875  
 Name OJ991217\_13.0118.C15.o1.gp Method AAT/GAP  
 Start 93 End 3558  
 GI 153\_1.R1084 Score 2552  
 Exons 93..182, 308..385, 498..662, 801..951, 1513..1790, 1975..2136,  
 2227..2433, 2536..2607, 3401..3558  
 GI Descrip. '3334441/sp|O22288|YI79\_ARATH 8.0e-10 HYPOTHETICAL 47.9 KD  
 PROTEIN T5I7.9 IN CHROMOSOME II >gi\_2642161 (AC003000)  
 hypothetical protein [Arabidopsis thaliana]'

Seq. No. 20770 Seq. ID OJ991217\_13.0118.C15  
 Gene No. 43337 Strand -  
 Start 1 End 6875  
 Name OJ991217\_13.0118.C15.o1.gs Method GENSCAN  
 Start 93 End 6875  
 GI none Score .62  
 Exons 93..182, 308..385, 498..662, 801..951, 1513..1790, 1975..2136,  
 2227..2463, 2536..2607, 3324..3541, 4532..4667, 4696..4820,  
 6246..6460, 6531..6570, 6773..6875

Seq. No. 20770 Seq. ID OJ991217\_13.0118.C15  
 Gene No. 43338 Strand -  
 Start 11078 End 15121  
 Name OJ991217\_13.0118.C15.o4.gp Method AAT/GAP  
 Start 10709 End 11439  
 GI 8312\_1.R1084 Score 944  
 Exons 10709..11129, 11245..11292, 11388..11439  
 GI Descrip. '1848214/emb|CAA72093| 6.0e-15 (Y11210) uracil  
 phosphoribosyltransferase [Nicotiana tabacum]'

Seq. No. 20770 Seq. ID OJ991217\_13.0118.C15  
 Gene No. 43338 Strand -  
 Start 11078 End 15121  
 Name OJ991217\_13.0118.C15.o2.gs Method GENSCAN  
 Start 11078 End 15121  
 GI none Score .88  
 Exons 11078..11129, 11245..11292, 11388..11443, 11655..11722,  
 13721..13802, 13890..13967, 14344..14402, 14630..14708,  
 14849..15121

Seq. No. 20770 Seq. ID OJ991217\_13.0118.C15  
 Gene No. 43338 Strand -

Start	11078	End	15121
Name	OJ991217_13.0118.C15.o2.np	Method	AAT/NAP
Start	11081	End	14890
GI	6647900	Score	620
Exons	11081..11129, 11245..11292, 11388..11443, 11655..11722, 12615..12676, 13069..13117, 13721..13802, 13890..13967, 14344..14402, 14630..14708, 14849..14890		
GI Descrip.	URACIL PHOSPHORIBOSYLTRANSFERASE (UMP PYROPHOSPHORYLASE) (UPRTASE) gi 1848214 emb CAA72093  (Y11210) uracil phosphoribosyltransferase [Nicotiana tabacum]		

Seq. No.	20770	Seq. ID	OJ991217_13.0118.C15
Gene No.	43338	Strand	-
Start	11078	End	15121
Name	OJ991217_13.0118.C15.o5.gp	Method	AAT/GAP
Start	14659	End	15005
GI	5003425	Score	390
Exons	14659..14708, 14849..15005		

Seq. No.	20770	Seq. ID	OJ991217_13.0118.C15
Gene No.	43339	Strand	-
Start	15880	End	16780
Name	OJ991217_13.0118.C15.o1.tm	Method	TBLASTX:Maize
Start	82	End	3461
GI	none	Score	114
Exons	82..183, 90..185, 97..183, 293..388, 305..388, 306..413, 495..629, 495..674, 500..664, 801..953, 802..954, 1513..1791, 1513..1791, 1515..1793, 1973..2137, 1975..2139, 1975..2094, 2207..2437, 2224..2436, 2516..2608, 2521..2610, 3390..3461		

Seq. No.	20770	Seq. ID	OJ991217_13.0118.C15
Gene No.	43339	Strand	-
Start	15880	End	16780
Name	OJ991217_13.0118.C15.o1.tc	Method	TBLASTX:Cress
Start	90	End	2610
GI	none	Score	107
Exons	90..185, 94..183, 294..386, 305..388, 495..674, 499..660, 793..834, 801..953, 811..954, 1434..1460, 1513..1791, 1515..1793, 1607..1804, 1975..2094, 1982..2137, 2053..2139, 2212..2445, 2227..2412, 2228..2437, 2521..2610, 2528..2608		

Seq. No.	20770	Seq. ID	OJ991217_13.0118.C15
Gene No.	43339	Strand	-
Start	15880	End	16780
Name	OJ991217_13.0118.C15.o3.ts	Method	TBLASTX:Soybean
Start	90	End	906
GI	none	Score	87
Exons	90..185, 94..183, 297..386, 305..388, 495..674, 499..654, 798..905, 811..906		

Seq. No.	20770	Seq. ID	OJ991217_13.0118.C15
Gene No.	43339	Strand	-
Start	15880	End	16780
Name	OJ991217_13.0118.C15.o4.ts	Method	TBLASTX:Soybean
Start	1513	End	1743
GI	none	Score	206
Exons	1513..1701, 1515..1706, 1517..1738, 1518..1724, 1552..1743,		

1598..1738

Seq. No.	20770	Seq. ID	OJ991217_13.0118.C15
Gene No.	43339	Strand	-
Start	15880	End	16780
Name	OJ991217_13.0118.C15.o1.ts	Method	TBLASTX:Soybean
Start	2048	End	2610
GI	none	Score	59
Exons	2048..2137, 2057..2140, 2224..2436, 2231..2437, 2516..2608, 2521..2610		

Seq. No.	20770	Seq. ID	OJ991217_13.0118.C15
Gene No.	43339	Strand	-
Start	15880	End	16780
Name	OJ991217_13.0118.C15.o1.tw	Method	TBLASTX:Wheat
Start	2242	End	4481
GI	none	Score	272
Exons	2242..2436, 2243..2437, 2525..2608, 2528..2608, 2529..2609, 3390..3461, 3398..3463, 4236..4325, 4431..4481		

Seq. No.	20770	Seq. ID	OJ991217_13.0118.C15
Gene No.	43339	Strand	-
Start	15880	End	16780
Name	OJ991217_13.0118.C15.o2.tm	Method	TBLASTX:Maize
Start	7090	End	10105
GI	none	Score	290
Exons	7090..7302, 7135..7227, 8732..8779, 8740..8784, 8741..8782, 8806..8940, 8847..8936, 9460..9558, 9470..9559, 9471..9560, 9474..9569, 9649..9738, 9650..9739, 9654..9743, 9654..9740, 9812..9907, 9820..9918, 9821..9898, 9822..9914, 9995..10102, 10014..10103, 10014..10103, 10016..10105		

Seq. No.	20770	Seq. ID	OJ991217_13.0118.C15
Gene No.	43339	Strand	-
Start	15880	End	16780
Name	OJ991217_13.0118.C15.o2.ts	Method	TBLASTX:Soybean
Start	7141	End	10100
GI	none	Score	249
Exons	7141..7302, 7141..7224, 8741..8779, 8860..8940, 9461..9559, 9471..9560, 9649..9735, 9650..9739, 9820..9918, 9837..9896, 9995..10096, 10009..10095, 10014..10100, 10014..10100		

Seq. No.	20770	Seq. ID	OJ991217_13.0118.C15
Gene No.	43339	Strand	-
Start	15880	End	16780
Name	OJ991217_13.0118.C15.o2.tc	Method	TBLASTX:Cress
Start	7249	End	10112
GI	none	Score	63
Exons	7249..7302, 8806..8940, 9461..9559, 9471..9560, 9650..9736, 9835..9900, 9995..10093, 10014..10112, 10014..10112		

Seq. No.	20770	Seq. ID	OJ991217_13.0118.C15
Gene No.	43339	Strand	-
Start	15880	End	16780
Name	OJ991217_13.0118.C15.o3.gs	Method	GENSCAN
Start	15880	End	16780
GI	none	Score	.88

Exons 15880..15999, 16511..16780

Seq. No.	20771	Seq. ID	OJ991217_13.0118.C16
Gene No.	43340	Strand	+
Start	1802	End	2269
Name	OJ991217_13.0118.C16.o1.gp	Method	AAT/GAP
Start	1802	End	2269
GI	none	Score	880
Exons	1802..2269		

Seq. No.	20771	Seq. ID	OJ991217_13.0118.C16
Gene No.	43341	Strand	+
Start	3460	End	8754
Name	OJ991217_13.0118.C16.o4.tm	Method	TBLASTX:Maize
Start	628	End	1420
GI	none	Score	279
Exons	628..810, 634..798, 1315..1419, 1319..1420, 1319..1420		

Seq. No.	20771	Seq. ID	OJ991217_13.0118.C16
Gene No.	43341	Strand	+
Start	3460	End	8754
Name	OJ991217_13.0118.C16.o3.tc	Method	TBLASTX:Cress
Start	1358	End	8685
GI	none	Score	60
Exons	1358..1414, 1418..1597, 1420..1587, 1760..1828, 1761..1817, 1866..1940, 8608..8685		

Seq. No.	20771	Seq. ID	OJ991217_13.0118.C16
Gene No.	43341	Strand	+
Start	3460	End	8754
Name	OJ991217_13.0118.C16.o3.tm	Method	TBLASTX:Maize
Start	1423	End	8705
GI	none	Score	293
Exons	1423..1596, 1424..1597, 1424..1597, 1425..1598, 1739..1837, 1754..1831, 8607..8705, 8608..8703		

Seq. No.	20771	Seq. ID	OJ991217_13.0118.C16
Gene No.	43341	Strand	+
Start	3460	End	8754
Name	OJ991217_13.0118.C16.o1.tw	Method	TBLASTX:Wheat
Start	1441	End	8754
GI	none	Score	240
Exons	1441..1587, 1442..1591, 1451..1591, 1755..1937, 1756..1920, 1757..1936, 1837..1938, 8623..8754, 8623..8751, 8625..8753		

Seq. No.	20771	Seq. ID	OJ991217_13.0118.C16
Gene No.	43341	Strand	+
Start	3460	End	8754
Name	OJ991217_13.0118.C16.o1.np	Method	AAT/NAP
Start	3460	End	6075
GI	3860271	Score	2213
Exons	3460..6075		
GI Descrip.	(AC005824) putative selenium-binding protein [Arabidopsis thaliana]		

Seq. No.	20771	Seq. ID	OJ991217_13.0118.C16
Gene No.	43341	Strand	+

Start	3460	End	8754
Name	OJ991217_13.0118.C16.o3.ts	Method	TBLASTX:Soybean
Start	3673	End	5292
GI	none	Score	85
Exons	3673..3840, 3892..4269, 4192..4323, 4363..4539, 4555..4704, 4789..4989, 4792..4962, 5013..5189, 5014..5193, 5095..5292		

Seq. No.	20771	Seq. ID	OJ991217_13.0118.C16
Gene No.	43341	Strand	+
Start	3460	End	8754
Name	OJ991217_13.0118.C16.o1.tm	Method	TBLASTX:Maize
Start	3850	End	5766
GI	none	Score	118
Exons	3850..4074, 3881..4099, 3934..4377, 3946..4329, 4026..4280, 4042..4329, 4095..4289, 4134..4280, 4363..4533, 4552..4683, 4675..4941, 4717..4974, 4999..5766, 5014..5289, 5014..5247, 5076..5270, 5088..5495, 5158..5346		

Seq. No.	20771	Seq. ID	OJ991217_13.0118.C16
Gene No.	43341	Strand	+
Start	3460	End	8754
Name	OJ991217_13.0118.C16.o2.tw	Method	TBLASTX:Wheat
Start	3855	End	5379
GI	none	Score	162
Exons	3855..4118, 3856..4119, 4009..4395, 4047..4124, 4072..4365, 4309..4533, 4552..4692, 4717..5064, 4906..4989, 4947..4988, 5004..5378, 5005..5379		

Seq. No.	20771	Seq. ID	OJ991217_13.0118.C16
Gene No.	43341	Strand	+
Start	3460	End	8754
Name	OJ991217_13.0118.C16.o2.tc	Method	TBLASTX:Cress
Start	3922	End	5496
GI	none	Score	118
Exons	3922..4128, 4216..4395, 4552..4692, 4554..4661, 4813..5136, 5113..5496, 5146..5340, 5148..5489		

Seq. No.	20771	Seq. ID	OJ991217_13.0118.C16
Gene No.	43341	Strand	+
Start	3460	End	8754
Name	OJ991217_13.0118.C16.o1.ts	Method	TBLASTX:Soybean
Start	5317	End	5853
GI	none	Score	454
Exons	5317..5853, 5329..5715		

Seq. No.	20771	Seq. ID	OJ991217_13.0118.C16
Gene No.	43341	Strand	+
Start	3460	End	8754
Name	OJ991217_13.0118.C16.o1.tc	Method	TBLASTX:Cress
Start	5545	End	6084
GI	none	Score	501
Exons	5545..6084, 5554..5763, 5673..6077, 5941..6078		

Seq. No.	20771	Seq. ID	OJ991217_13.0118.C16
Gene No.	43341	Strand	+
Start	3460	End	8754
Name	OJ991217_13.0118.C16.o2.tm	Method	TBLASTX:Maize

Start	5767	End	6096
GI	none	Score	391
Exons	5767..6096, 5768..5953, 5772..6080, 5788..6084		

Seq. No.	20771	Seq. ID	OJ991217_13.0118.C16
Gene No.	43341	Strand	+
Start	3460	End	8754
Name	OJ991217_13.0118.C16.o2.ts	Method	TBLASTX:Soybean
Start	5856	End	6084
GI	none	Score	287
Exons	5856..6083, 5857..6084		

Seq. No.	20772	Seq. ID	OJ991217_13.0118.C17
Gene No.	43342	Strand	+
Start	3115	End	4278
Name	OJ991217_13.0118.C17.o3.gp	Method	AAT/GAP
Start	3115	End	4278
GI	LIB3479-012-Q6-K1-D2	Score	674
Exons	3115..3433, 4229..4278		
GI Descrip.	'3236258 8.0e-29 (AC004684) putative alcohol dehydrogenase [Arabidopsis thaliana] >gi_4895208_gb_AAD32795.1_AC007661_32 (AC007661) putative alcohol dehydrogenase [Arabidopsis thaliana]'		

Seq. No.	20772	Seq. ID	OJ991217_13.0118.C17
Gene No.	43343	Strand	+
Start	6265	End	6564
Name	OJ991217_13.0118.C17.o4.gp	Method	AAT/GAP
Start	6265	End	6564
GI	LIB3433-053-P1-K1-H2	Score	523
Exons	6265..6564		
GI Descrip.	'4895205/gb AAD32792.1 AC007661_29 8.0e-37 (AC007661) putative alcohol dehydrogenase [Arabidopsis thaliana]'		

Seq. No.	20772	Seq. ID	OJ991217_13.0118.C17
Gene No.	43344	Strand	+
Start	9574	End	10150
Name	OJ991217_13.0118.C17.o4.gs	Method	GENSCAN
Start	9574	End	10150
GI	none	Score	.56
Exons	9574..9658, 10032..10150		

Seq. No.	20772	Seq. ID	OJ991217_13.0118.C17
Gene No.	43345	Strand	+
Start	11517	End	12733
Name	OJ991217_13.0118.C17.o2.np	Method	AAT/NAP
Start	11517	End	12733
GI	6721543	Score	106
Exons	11517..11645, 12299..12374, 12693..12733		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	20772	Seq. ID	OJ991217_13.0118.C17
Gene No.	43345	Strand	+
Start	11517	End	12733
Name	OJ991217_13.0118.C17.o6.gp	Method	AAT/GAP
Start	11531	End	11937
GI	7406_1.R1084	Score	665

Exons 11531..11937  
 GI Descrip. '1122315/emb|CAA63901| 7.0e-10 (X94191) heat shock protein 17.0 [Pennisetum glaucum]'

Seq. No.	20772	Seq. ID	OJ991217_13.0118.C17
Gene No.	43346	Strand	-
Start	1	End	256
Name	OJ991217_13.0118.C17.o1.gp	Method	AAT/GAP
Start	1	End	256
GI	3760407	Score	487
Exons	1..256		

Seq. No.	20772	Seq. ID	OJ991217_13.0118.C17
Gene No.	43347	Strand	-
Start	525	End	1633
Name	OJ991217_13.0118.C17.o1.gs	Method	GENSCAN
Start	525	End	835
GI	none	Score	.8
Exons	525..835		

Seq. No.	20772	Seq. ID	OJ991217_13.0118.C17
Gene No.	43347	Strand	-
Start	525	End	1633
Name	OJ991217_13.0118.C17.o2.gp	Method	AAT/GAP
Start	539	End	1633
GI	4878794	Score	732
Exons	539..892, 1604..1633		
GI Descrip.	3334441/sp O22288 YI79 ARATH 8.0e-10 HYPOTHETICAL 47.9 KD PROTEIN T5I7.9 IN CHROMOSOME II >gi_2642161 (AC003000) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	20772	Seq. ID	OJ991217_13.0118.C17
Gene No.	43348	Strand	-
Start	5923	End	8905
Name	OJ991217_13.0118.C17.o3.gs	Method	GENSCAN
Start	5923	End	8857
GI	none	Score	.74
Exons	5923..6006, 6074..6382, 7695..7967, 8193..8280, 8400..8476, 8571..8621, 8747..8857		

Seq. No.	20772	Seq. ID	OJ991217_13.0118.C17
Gene No.	43348	Strand	-
Start	5923	End	8905
Name	OJ991217_13.0118.C17.o1.np	Method	AAT/NAP
Start	5926	End	8866
GI	4895205	Score	998
Exons	5926..6382, 7695..7967, 8193..8280, 8400..8476, 8571..8621, 8747..8866		
GI Descrip.	(AC007661) putative alcohol dehydrogenase [Arabidopsis thaliana]		

Seq. No.	20772	Seq. ID	OJ991217_13.0118.C17
Gene No.	43348	Strand	-
Start	5923	End	8905
Name	OJ991217_13.0118.C17.o5.gp	Method	AAT/GAP
Start	8203	End	8905
GI	2427658	Score	635
Exons	8203..8280, 8400..8476, 8571..8621, 8747..8905		



GI Descrip. 4895205/gb|AAD32792.1|AC007661\_29 8.0e-37 (AC007661) putative alcohol dehydrogenase [Arabidopsis thaliana]

Seq. No.	20772	Seq. ID	OJ991217_13.0118.C17
Gene No.	43349	Strand	-
Start	11065	End	14279
Name	OJ991217_13.0118.C17.o2.tc	Method	TBLASTX:Cress
Start	2643	End	7835
GI	none	Score	102
Exons	2643..2720, 2805..3032, 2829..3029, 2845..3048, 3215..3355, 3216..3353, 5923..5988, 6108..6263, 6111..6317, 6122..6328, 6341..6379, 7695..7835, 7701..7829, 7708..7833		

Seq. No.	20772	Seq. ID	OJ991217_13.0118.C17
Gene No.	43349	Strand	-
Start	11065	End	14279
Name	OJ991217_13.0118.C17.o2.tm	Method	TBLASTX:Maize
Start	2652	End	6382
GI	none	Score	147
Exons	2652..2741, 2821..3018, 2822..2959, 2829..3020, 5846..6010, 5923..6009, 6119..6238, 6122..6334, 6126..6335, 6309..6377, 6338..6382		

Seq. No.	20772	Seq. ID	OJ991217_13.0118.C17
Gene No.	43349	Strand	-
Start	11065	End	14279
Name	OJ991217_13.0118.C17.o2.ts	Method	TBLASTX:Soybean
Start	2655	End	7968
GI	none	Score	135
Exons	2655..2693, 2820..3029, 2827..3030, 3055..3078, 3207..3449, 3215..3442, 3272..3457, 5923..5967, 6117..6329, 6122..6331, 6338..6379, 6345..6380, 7687..7953, 7695..7946, 7935..7967, 7939..7968		

Seq. No.	20772	Seq. ID	OJ991217_13.0118.C17
Gene No.	43349	Strand	-
Start	11065	End	14279
Name	OJ991217_13.0118.C17.o1.tm	Method	TBLASTX:Maize
Start	3022	End	8476
GI	none	Score	91
Exons	3022..3087, 3026..3079, 3201..3422, 3206..3487, 3207..3482, 3269..3487, 3625..3723, 3647..3745, 3648..3734, 3834..3914, 3834..3914, 3835..3915, 7687..7959, 7695..7967, 7719..7967, 8190..8273, 8192..8296, 8254..8274, 8399..8476, 8403..8474		

Seq. No.	20772	Seq. ID	OJ991217_13.0118.C17
Gene No.	43349	Strand	-
Start	11065	End	14279
Name	OJ991217_13.0118.C17.o1.ts	Method	TBLASTX:Soybean
Start	3642	End	8857
GI	none	Score	87
Exons	3642..3737, 3659..3745, 3832..3915, 3834..3914, 4195..4254, 4522..4623, 4553..4627, 8175..8279, 8181..8282, 8397..8477, 8399..8476, 8568..8618, 8735..8857, 8784..8846		

Seq. No.	20772	Seq. ID	OJ991217_13.0118.C17
Gene No.	43349	Strand	-

Start	11065	End	14279
Name	OJ991217_13.0118.C17.o1.tc	Method	TBLASTX:Cress
Start	3690	End	8851
GI	none	Score	90
Exons	3690..3731, 3832..3909, 3834..3911, 4201..4254, 4522..4623, 4529..4627, 8238..8279, 8394..8477, 8399..8476, 8574..8627, 8576..8620, 8735..8851, 8784..8837		

Seq. No.	20772	Seq. ID	OJ991217_13.0118.C17
Gene No.	43349	Strand	-
Start	11065	End	14279
Name	OJ991217_13.0118.C17.o3.tm	Method	TBLASTX:Maize
Start	4195	End	8958
GI	none	Score	86
Exons	4195..4254, 4525..4635, 4529..4636, 8568..8627, 8572..8622, 8735..8857, 8747..8857, 8929..8958		

Seq. No.	20772	Seq. ID	OJ991217_13.0118.C17
Gene No.	43349	Strand	-
Start	11065	End	14279
Name	OJ991217_13.0118.C17.o5.gs	Method	GENSCAN
Start	11065	End	14140
GI	none	Score	.58
Exons	11065..11207, 11355..11516, 12469..12671, 12676..12723, 12787..12918, 13009..13046, 13112..13294, 13387..13645, 13722..14020, 14114..14140		

Seq. No.	20772	Seq. ID	OJ991217_13.0118.C17
Gene No.	43349	Strand	-
Start	11065	End	14279
Name	OJ991217_13.0118.C17.o7.gp	Method	AAT/GAP
Start	11880	End	12333
GI	LIB3431-045-P1-N1-A10	Score	876
Exons	11880..12333		
GI Descrip.	'5441876/dbj AP000367.1 AP000367 0.0e+00 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig b)'		

Seq. No.	20772	Seq. ID	OJ991217_13.0118.C17
Gene No.	43349	Strand	-
Start	11065	End	14279
Name	OJ991217_13.0118.C17.o3.np	Method	AAT/NAP
Start	12437	End	14279
GI	5441880	Score	1568
Exons	12437..12671, 12787..12918, 13009..13032, 13069..13142, 13387..13645, 13722..14020, 14244..14279		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	20772	Seq. ID	OJ991217_13.0118.C17
Gene No.	43349	Strand	-
Start	11065	End	14279
Name	OJ991217_13.0118.C17.o8.gp	Method	AAT/GAP
Start	13395	End	13894
GI	LIB3475-007-P1-K1-G8	Score	793
Exons	13395..13645, 13722..13894		
GI Descrip.	'5441880/dbj BAA82378.1  5.0e-75 (AP000367) EST C28952(C62945)		

corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]

Seq. No.	20773	Seq. ID	OJ991217_13.0118.C18
Gene No.	43350	Strand	-
Start	16	End	3018
Name	OJ991217_13.0118.C18.o1.gs	Method	GENSCAN
Start	16	End	2894
GI	none	Score	.72
Exons	16..141, 316..562, 668..818, 1194..1348, 1690..2894		

Seq. No.	20773	Seq. ID	OJ991217_13.0118.C18
Gene No.	43350	Strand	-
Start	16	End	3018
Name	OJ991217_13.0118.C18.o1.np	Method	AAT/NAP
Start	222	End	3018
GI	5441880	Score	2481
Exons	222..562, 668..818, 1314..1628, 1887..1918, 2363..3018		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	20773	Seq. ID	OJ991217_13.0118.C18
Gene No.	43350	Strand	-
Start	16	End	3018
Name	OJ991217_13.0118.C18.o1.tw	Method	TBLASTX:Wheat
Start	2133	End	2513
GI	none	Score	83
Exons	2133..2309, 2133..2309, 2194..2313, 2307..2504, 2319..2513		

Seq. No.	20773	Seq. ID	OJ991217_13.0118.C18
Gene No.	43350	Strand	-
Start	16	End	3018
Name	OJ991217_13.0118.C18.o1.tm	Method	TBLASTX:Maize
Start	2211	End	2807
GI	none	Score	151
Exons	2211..2282, 2346..2645, 2407..2628, 2679..2807, 2701..2799		

Seq. No.	20773	Seq. ID	OJ991217_13.0118.C18
Gene No.	43350	Strand	-
Start	16	End	3018
Name	OJ991217_13.0118.C18.o1.gp	Method	AAT/GAP
Start	2333	End	2764
GI	5701669	Score	841
Exons	2333..2764		
GI Descrip.	5441880/dbj BAA82378.1  5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	20774	Seq. ID	OJ991217_13.0118.C19
Gene No.	43351	Strand	-
Start	1	End	894
Name	OJ991217_13.0118.C19.o1.np	Method	AAT/NAP
Start	1	End	894
GI	6907089	Score	1433
Exons	1..894		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	20774	Seq. ID	OJ991217_13.0118.C19
Gene No.	43351	Strand	-
Start	1	End	894
Name	OJ991217_13.0118.C19.o1.gs	Method	GENSCAN
Start	13	End	858
GI	none	Score	.69
Exons	13..858		
Seq. No.	20775	Seq. ID	OJ991217_13.0118.C20
Gene No.	43352	Strand	+
Start	41	End	334
Name	OJ991217_13.0118.C20.o1.gs	Method	GENSCAN
Start	41	End	334
GI	none	Score	.89
Exons	41..101, 228..334		
Seq. No.	20776	Seq. ID	OJ991217_13.0118.C21
Gene No.	43353	Strand	+
Start	1	End	1039
Name	OJ991217_13.0118.C21.o1.np	Method	AAT/NAP
Start	1	End	1039
GI	6466937	Score	797
Exons	1..1039		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		
Seq. No.	20776	Seq. ID	OJ991217_13.0118.C21
Gene No.	43353	Strand	+
Start	1	End	1039
Name	OJ991217_13.0118.C21.o1.tm	Method	TBLASTX:Maize
Start	21	End	519
GI	none	Score	557
Exons	21..290, 22..519, 58..507, 330..518		
Seq. No.	20776	Seq. ID	OJ991217_13.0118.C21
Gene No.	43353	Strand	+
Start	1	End	1039
Name	OJ991217_13.0118.C21.o1.ts	Method	TBLASTX:Soybean
Start	21	End	291
GI	none	Score	290
Exons	21..290, 22..291		
Seq. No.	20776	Seq. ID	OJ991217_13.0118.C21
Gene No.	43353	Strand	+
Start	1	End	1039
Name	OJ991217_13.0118.C21.o1.tw	Method	TBLASTX:Wheat
Start	139	End	732
GI	none	Score	264
Exons	139..519, 231..518, 616..732		
Seq. No.	20776	Seq. ID	OJ991217_13.0118.C21
Gene No.	43353	Strand	+
Start	1	End	1039
Name	OJ991217_13.0118.C21.o2.tm	Method	TBLASTX:Maize
Start	586	End	1032
GI	none	Score	261

Exons 586..951, 636..872, 961..1032

Seq. No.	20776	Seq. ID	OJ991217_13.0118.C21
Gene No.	43353	Strand	+
Start	1	End	1039
Name	OJ991217_13.0118.C21.o2.tw	Method	TBLASTX:Wheat
Start	739	End	996
GI	none	Score	186
Exons	739..996, 783..974		

Seq. No.	20777	Seq. ID	OJ991217_13.0118.C22
Gene No.	43354	Strand	-
Start	184	End	1884
Name	OJ991217_13.0118.C22.o1.gs	Method	GENSCAN
Start	184	End	1884
GI	none	Score	.45
Exons	184..328, 1293..1309, 1589..1616, 1802..1884		

Seq. No.	20777	Seq. ID	OJ991217_13.0118.C22
Gene No.	43355	Strand	-
Start	2930	End	5556
Name	OJ991217_13.0118.C22.o1.tm	Method	TBLASTX:Maize
Start	2885	End	3736
GI	none	Score	66
Exons	2885..3124, 2939..3127, 2946..3128, 3626..3736		

Seq. No.	20777	Seq. ID	OJ991217_13.0118.C22
Gene No.	43355	Strand	-
Start	2930	End	5556
Name	OJ991217_13.0118.C22.o1.np	Method	AAT/NAP
Start	2930	End	5556
GI	4432840	Score	258
Exons	2930..3127, 3629..3761, 4502..4612, 5453..5556		
GI Descrip.	(AC006283) unknown protein [Arabidopsis thaliana]		

Seq. No.	20777	Seq. ID	OJ991217_13.0118.C22
Gene No.	43355	Strand	-
Start	2930	End	5556
Name	OJ991217_13.0118.C22.o1.tc	Method	TBLASTX:Cress
Start	2939	End	4612
GI	none	Score	116
Exons	2939..3127, 3614..3766, 3615..3767, 3624..3794, 4498..4611, 4502..4612		

Seq. No.	20777	Seq. ID	OJ991217_13.0118.C22
Gene No.	43355	Strand	-
Start	2930	End	5556
Name	OJ991217_13.0118.C22.o1.ts	Method	TBLASTX:Soybean
Start	2939	End	4612
GI	none	Score	114
Exons	2939..3127, 3614..3766, 3624..3770, 3626..3766, 4498..4611, 4502..4612		

Seq. No.	20778	Seq. ID	OJ991217_13.0118.C24
Gene No.	43356	Strand	+
Start	419	End	478
Name	OJ991217_13.0118.C24.o1.gs	Method	GENSCAN

Start	419	End	478
GI	none	Score	.42
Exons	419..478		

  

Seq. No.	20779	Seq. ID	OJ991217_13.0118.C25
Gene No.	43357	Strand	+
Start	1	End	2419
Name	OJ991217_13.0118.C25.o1.np	Method	AAT/NAP
Start	1	End	2416
GI	6907089	Score	2878
Exons	1..438, 542..2416		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

  

Seq. No.	20779	Seq. ID	OJ991217_13.0118.C25
Gene No.	43357	Strand	+
Start	1	End	2419
Name	OJ991217_13.0118.C25.o1.gs	Method	GENSCAN
Start	117	End	2419
GI	none	Score	.45
Exons	117..242, 542..1066, 1091..2419		

  

Seq. No.	20779	Seq. ID	OJ991217_13.0118.C25
Gene No.	43358	Strand	-
Start	3038	End	8424
Name	OJ991217_13.0118.C25.o3.tw	Method	TBLASTX:Wheat
Start	923	End	7205
GI	none	Score	168
Exons	923..1006, 6719..7204, 6750..7010, 7068..7205		

  

Seq. No.	20779	Seq. ID	OJ991217_13.0118.C25
Gene No.	43358	Strand	-
Start	3038	End	8424
Name	OJ991217_13.0118.C25.o2.gs	Method	GENSCAN
Start	3038	End	8282
GI	none	Score	.47
Exons	3038..3880, 3965..4921, 4985..5156, 5183..5571, 5584..6309, 6380..6562, 6626..7419, 7462..8282		

  

Seq. No.	20779	Seq. ID	OJ991217_13.0118.C25
Gene No.	43358	Strand	-
Start	3038	End	8424
Name	OJ991217_13.0118.C25.o2.np	Method	AAT/NAP
Start	3041	End	8424
GI	6498441	Score	6953
Exons	3041..3322, 3416..4813, 4985..5707, 5882..6016, 6200..6562, 6626..7089, 7420..8424		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

  

Seq. No.	20779	Seq. ID	OJ991217_13.0118.C25
Gene No.	43358	Strand	-
Start	3038	End	8424
Name	OJ991217_13.0118.C25.o7.tw	Method	TBLASTX:Wheat
Start	3050	End	3652
GI	none	Score	74
Exons	3050..3175, 3054..3176, 3363..3647, 3368..3652		

Seq. No.	20779	Seq. ID	OJ991217_13.0118.C25
Gene No.	43358	Strand	-
Start	3038	End	8424
Name	OJ991217_13.0118.C25.o5.tw	Method	TBLASTX:Wheat
Start	3653	End	4034
GI	none	Score	167
Exons	3653..4033, 3684..3929, 3692..4030, 3957..4034		

Seq. No.	20779	Seq. ID	OJ991217_13.0118.C25
Gene No.	43358	Strand	-
Start	3038	End	8424
Name	OJ991217_13.0118.C25.o2.tm	Method	TBLASTX:Maize
Start	3809	End	4171
GI	none	Score	75
Exons	3809..3856, 3839..4051, 3848..4171, 3861..4142		

Seq. No.	20779	Seq. ID	OJ991217_13.0118.C25
Gene No.	43358	Strand	-
Start	3038	End	8424
Name	OJ991217_13.0118.C25.o8.tw	Method	TBLASTX:Wheat
Start	4364	End	4676
GI	none	Score	63
Exons	4364..4624, 4500..4676		

Seq. No.	20779	Seq. ID	OJ991217_13.0118.C25
Gene No.	43358	Strand	-
Start	3038	End	8424
Name	OJ991217_13.0118.C25.o2.ts	Method	TBLASTX:Soybean
Start	4424	End	4990
GI	5666795	Score	68
Exons	4424..4624, 4679..4816, 4892..4990		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	20779	Seq. ID	OJ991217_13.0118.C25
Gene No.	43358	Strand	-
Start	3038	End	8424
Name	OJ991217_13.0118.C25.o4.tw	Method	TBLASTX:Wheat
Start	4679	End	5113
GI	none	Score	88
Exons	4679..4828, 4680..4817, 4872..5048, 4889..5113		

Seq. No.	20779	Seq. ID	OJ991217_13.0118.C25
Gene No.	43358	Strand	-
Start	3038	End	8424
Name	OJ991217_13.0118.C25.o2.tw	Method	TBLASTX:Wheat
Start	5570	End	5995
GI	none	Score	312
Exons	5570..5995, 5603..5830, 5605..5994		

Seq. No.	20779	Seq. ID	OJ991217_13.0118.C25
Gene No.	43358	Strand	-
Start	3038	End	8424
Name	OJ991217_13.0118.C25.o1.ts	Method	TBLASTX:Soybean
Start	5611	End	5916
GI	none	Score	90
Exons	5611..5916, 5756..5899		

Seq. No.	20779	Seq. ID	OJ991217_13.0118.C25
Gene No.	43358	Strand	-
Start	3038	End	8424
Name	OJ991217_13.0118.C25.o1.tm	Method	TBLASTX:Maize
Start	5668	End	6052
GI	none	Score	230
Exons	5668..6051, 5687..6052		

Seq. No.	20779	Seq. ID	OJ991217_13.0118.C25
Gene No.	43358	Strand	-
Start	3038	End	8424
Name	OJ991217_13.0118.C25.o3.tm	Method	TBLASTX:Maize
Start	6079	End	6358
GI	none	Score	73
Exons	6079..6195, 6079..6348, 6089..6358		

Seq. No.	20779	Seq. ID	OJ991217_13.0118.C25
Gene No.	43358	Strand	-
Start	3038	End	8424
Name	OJ991217_13.0118.C25.o1.tw	Method	TBLASTX:Wheat
Start	6103	End	6554
GI	none	Score	189
Exons	6103..6351, 6110..6349, 6356..6553, 6357..6554		

Seq. No.	20779	Seq. ID	OJ991217_13.0118.C25
Gene No.	43358	Strand	-
Start	3038	End	8424
Name	OJ991217_13.0118.C25.o6.tw	Method	TBLASTX:Wheat
Start	7943	End	8332
GI	none	Score	99
Exons	7943..8200, 7977..8216, 8183..8281, 8184..8264, 8288..8332		

Seq. No.	20779	Seq. ID	OJ991217_13.0118.C25
Gene No.	43358	Strand	-
Start	3038	End	8424
Name	OJ991217_13.0118.C25.o4.tm	Method	TBLASTX:Maize
Start	8045	End	8293
GI	none	Score	107
Exons	8045..8293, 8046..8291		

Seq. No.	20780	Seq. ID	OJ991217_13.0118.C26
Gene No.	43359	Strand	-
Start	1	End	798
Name	OJ991217_13.0118.C26.o1.np	Method	AAT/NAP
Start	1	End	798
GI	5042454	Score	619
Exons	1..495, 549..798		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	20780	Seq. ID	OJ991217_13.0118.C26
Gene No.	43359	Strand	-
Start	1	End	798
Name	OJ991217_13.0118.C26.o1.gs	Method	GENSCAN
Start	15	End	653
GI	none	Score	.56
Exons	15..495, 549..653		



Seq. No.	20781	Seq. ID	OJ991027_18.0118.C1
Gene No.	43360	Strand	+
Start	265	End	405
Name	OJ991027_18.0118.C1.o1.gs	Method	GENSCAN
Start	265	End	405
GI	none	Score	.65
Exons	265..405		

Seq. No.	20782	Seq. ID	OJ991027_18.0118.C2
Gene No.	43361	Strand	+
Start	1	End	254
Name	OJ991027_18.0118.C2.o1.np	Method	AAT/NAP
Start	1	End	254
GI	6907086	Score	159
Exons	1..254		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	20783	Seq. ID	OJ991027_18.0118.C3
Gene No.	43362	Strand	+
Start	268	End	10138
Name	OJ991027_18.0118.C3.o1.gs	Method	GENSCAN
Start	268	End	10138
GI	none	Score	.84
Exons	268..443, 1093..1236, 1993..2145, 2766..3275, 3371..4906, 4988..5056, 6000..6123, 8633..8774, 8856..9030, 9069..9243, 10020..10138		

Seq. No.	20783	Seq. ID	OJ991027_18.0118.C3
Gene No.	43362	Strand	+
Start	268	End	10138
Name	OJ991027_18.0118.C3.o1.gp	Method	AAT/GAP
Start	6166	End	6616
GI	4880593	Score	848
Exons	6166..6616		

Seq. No.	20783	Seq. ID	OJ991027_18.0118.C3
Gene No.	43363	Strand	+
Start	19658	End	22640
Name	OJ991027_18.0118.C3.o2.np	Method	AAT/NAP
Start	19658	End	22640
GI	6554203	Score	92
Exons	19658..19871, 22606..22640		
GI Descrip.	(AC011661) T23J18.3 [Arabidopsis thaliana]		

Seq. No.	20783	Seq. ID	OJ991027_18.0118.C3
Gene No.	43364	Strand	+
Start	24367	End	26300
Name	OJ991027_18.0118.C3.o3.np	Method	AAT/NAP
Start	24241	End	26300
GI	6634721	Score	341
Exons	24241..24286, 25180..25410, 25866..26300		
GI Descrip.	(AC012463) T2E6.4 [Arabidopsis thaliana]		

Seq. No.	20783	Seq. ID	OJ991027_18.0118.C3
Gene No.	43364	Strand	+
Start	24367	End	26300

Name OJ991027\_18.0118.C3.o4.gs  
 Start 24367  
 GI none  
 Exons 24367..24417, 24861..25505

Method GENSCAN  
 End 25505  
 Score .77

Seq. No. 20783  
 Gene No. 43365  
 Start 10855  
 Name OJ991027\_18.0118.C3.o1.np  
 Start 10855  
 GI 6437520  
 Exons 10855..12099, 12191..12277, 12305..12388  
 GI Descrip. (AC012193) putative AUX1-like permease [Arabidopsis thaliana]

Seq. ID OJ991027\_18.0118.C3  
 Strand -  
 End 13275  
 Method AAT/NAP  
 End 12388  
 Score 1966

Seq. No. 20783  
 Gene No. 43365  
 Start 10855  
 Name OJ991027\_18.0118.C3.o2.gs  
 Start 10855  
 GI none  
 Exons 10855..12099, 12191..12511, 13270..13275

Seq. ID OJ991027\_18.0118.C3  
 Strand -  
 End 13275  
 Method GENSCAN  
 End 13275  
 Score .89

Seq. No. 20783  
 Gene No. 43365  
 Start 10855  
 Name OJ991027\_18.0118.C3.o2.gp  
 Start 11991  
 GI 2442735  
 Exons 11991..12099, 12191..12422  
 GI Descrip. 4803938/gb|AAD29811.1|AC006264\_19 1.0e-18 (AC006264) putative aromatic amino acid permease [Arabidopsis thaliana]  
 >gi\_5139337\_emb CAB45643.1 (AJ243221) putative AUX1-like permease [Arabidopsis thaliana]

Seq. ID OJ991027\_18.0118.C3  
 Strand -  
 End 13275  
 Method AAT/GAP  
 End 12422  
 Score 593

Seq. No. 20783  
 Gene No. 43366  
 Start 19637  
 Name OJ991027\_18.0118.C3.o3.gs  
 Start 19637  
 GI none  
 Exons 19637..19927, 19972..20248, 22908..22939, 23267..23401

Seq. ID OJ991027\_18.0118.C3  
 Strand -  
 End 23401  
 Method GENSCAN  
 End 23401  
 Score .79

Seq. No. 20783  
 Gene No. 43367  
 Start 25868  
 Name OJ991027\_18.0118.C3.o4.ts  
 Start 1089  
 GI none  
 Exons 1089..1253, 1090..1239, 2008..2151, 2022..2093, 2029..2151, 2760..2864

Seq. ID OJ991027\_18.0118.C3  
 Strand -  
 End 26230  
 Method TBLASTX:Soybean  
 End 2864  
 Score 192

Seq. No. 20783  
 Gene No. 43367  
 Start 25868  
 Name OJ991027\_18.0118.C3.o1.tc  
 Start 2787  
 GI none

Seq. ID OJ991027\_18.0118.C3  
 Strand -  
 End 26230  
 Method TBLASTX:Cress  
 End 3766  
 Score 111

Exons 2787..2906, 2949..3284, 3068..3274, 3153..3287, 3369..3485,  
3369..3524, 3370..3525, 3371..3523, 3506..3559, 3614..3766

Seq. No. 20783 Seq. ID OJ991027\_18.0118.C3  
Gene No. 43367 Strand -  
Start 25868 End 26230  
Name OJ991027\_18.0118.C3.o2.tm Method TBLASTX:Maize  
Start 3825 End 4285  
GI none Score 404  
Exons 3825..4280, 3825..4283, 3827..4285, 3856..4284

Seq. No. 20783 Seq. ID OJ991027\_18.0118.C3  
Gene No. 43367 Strand -  
Start 25868 End 26230  
Name OJ991027\_18.0118.C3.o4.tm Method TBLASTX:Maize  
Start 4334 End 4756  
GI none Score 250  
Exons 4334..4519, 4338..4562, 4340..4546, 4622..4681, 4623..4679,  
4634..4696, 4673..4756, 4676..4756

Seq. No. 20783 Seq. ID OJ991027\_18.0118.C3  
Gene No. 43367 Strand -  
Start 25868 End 26230  
Name OJ991027\_18.0118.C3.o4.tc Method TBLASTX:Cress  
Start 4622 End 6132  
GI none Score 121  
Exons 4622..4735, 4826..4906, 4985..5059, 4993..5058, 5997..6098,  
5999..6118, 6016..6132

Seq. No. 20783 Seq. ID OJ991027\_18.0118.C3  
Gene No. 43367 Strand -  
Start 25868 End 26230  
Name OJ991027\_18.0118.C3.o7.tm Method TBLASTX:Maize  
Start 4757 End 6121  
GI none Score 150  
Exons 4757..4906, 4759..4869, 4985..5098, 4985..5062, 5997..6098,  
5999..6121

Seq. No. 20783 Seq. ID OJ991027\_18.0118.C3  
Gene No. 43367 Strand -  
Start 25868 End 26230  
Name OJ991027\_18.0118.C3.o2.ts Method TBLASTX:Soybean  
Start 10864 End 11371  
GI none Score 67  
Exons 10864..10932, 10865..10933, 10870..10989, 10871..10939,  
10987..11184, 11024..11371, 11239..11370

Seq. No. 20783 Seq. ID OJ991027\_18.0118.C3  
Gene No. 43367 Strand -  
Start 25868 End 26230  
Name OJ991027\_18.0118.C3.o3.tm Method TBLASTX:Maize  
Start 10867 End 11310  
GI none Score 118  
Exons 10867..10989, 10867..10932, 10868..11308, 10868..10939,  
10987..11184, 11239..11310, 11248..11310

Seq. No. 20783 Seq. ID OJ991027\_18.0118.C3

Gene No.	43367	Strand	-
Start	25868	End	26230
Name	OJ991027_18.0118.C3.o2.tc	Method	TBLASTX:Cress
Start	11305	End	11757
GI	none	Score	150
Exons	11305..11382, 11398..11577, 11417..11575, 11608..11757, 11609..11755		

Seq. No.	20783	Seq. ID	OJ991027_18.0118.C3
Gene No.	43367	Strand	-
Start	25868	End	26230
Name	OJ991027_18.0118.C3.o1.tm	Method	TBLASTX:Maize
Start	11362	End	11922
GI	none	Score	237
Exons	11362..11577, 11366..11575, 11602..11769, 11602..11922, 11804..11920		

Seq. No.	20783	Seq. ID	OJ991027_18.0118.C3
Gene No.	43367	Strand	-
Start	25868	End	26230
Name	OJ991027_18.0118.C3.o5.ts	Method	TBLASTX:Soybean
Start	11372	End	11539
GI	none	Score	155
Exons	11372..11539, 11374..11538		

Seq. No.	20783	Seq. ID	OJ991027_18.0118.C3
Gene No.	43367	Strand	-
Start	25868	End	26230
Name	OJ991027_18.0118.C3.o1.ts	Method	TBLASTX:Soybean
Start	11539	End	12245
GI	none	Score	41
Exons	11539..11583, 11540..11575, 11611..12108, 11612..12115, 12173..12241, 12189..12245		

Seq. No.	20783	Seq. ID	OJ991027_18.0118.C3
Gene No.	43367	Strand	-
Start	25868	End	26230
Name	OJ991027_18.0118.C3.o6.tc	Method	TBLASTX:Cress
Start	11758	End	11869
GI	none	Score	81
Exons	11758..11868, 11804..11869		

Seq. No.	20783	Seq. ID	OJ991027_18.0118.C3
Gene No.	43367	Strand	-
Start	25868	End	26230
Name	OJ991027_18.0118.C3.o3.tc	Method	TBLASTX:Cress
Start	11881	End	12400
GI	none	Score	125
Exons	11881..12108, 11908..12102, 11909..12115, 12173..12265, 12189..12242, 12344..12400		

Seq. No.	20783	Seq. ID	OJ991027_18.0118.C3
Gene No.	43367	Strand	-
Start	25868	End	26230
Name	OJ991027_18.0118.C3.o6.tm	Method	TBLASTX:Maize
Start	11923	End	12100
GI	none	Score	179

Exons 11923..12099, 11923..12099, 11924..12100

Seq. No. 20783 Seq. ID OJ991027\_18.0118.C3  
Gene No. 43367 Strand -  
Start 25868 End 26230  
Name OJ991027\_18.0118.C3.o5.tm Method TBLASTX:Maize  
Start 19930 End 20194  
GI none Score 204  
Exons 19930..20133, 19931..20149, 20134..20181, 20134..20181,  
20135..20194

Seq. No. 20783 Seq. ID OJ991027\_18.0118.C3  
Gene No. 43367 Strand -  
Start 25868 End 26230  
Name OJ991027\_18.0118.C3.o5.gs Method GENSCAN  
Start 25868 End 26202  
GI none Score .66  
Exons 25868..26202

Seq. No. 20783 Seq. ID OJ991027\_18.0118.C3  
Gene No. 43367 Strand -  
Start 25868 End 26230  
Name OJ991027\_18.0118.C3.o3.ts Method TBLASTX:Soybean  
Start 25873 End 26230  
GI none Score 198  
Exons 25873..26049, 25874..26041, 26044..26148, 26066..26164,  
26191..26229, 26195..26230

Seq. No. 20783 Seq. ID OJ991027\_18.0118.C3  
Gene No. 43367 Strand -  
Start 25868 End 26230  
Name OJ991027\_18.0118.C3.o5.tc Method TBLASTX:Cress  
Start 25909 End 26230  
GI none Score 141  
Exons 25909..26040, 25910..26050, 26066..26164, 26083..26166,  
26195..26230

Seq. No. 20784 Seq. ID OJ991027\_18.0118.C4  
Gene No. 43368 Strand +  
Start 1 End 282  
Name OJ991027\_18.0118.C4.o1.np Method AAT/NAP  
Start 1 End 282  
GI 5777616 Score 193  
Exons 1..282  
GI Descrip. (AJ245900) CAA30374.1 protein [Oryza sativa]

Seq. No. 20785 Seq. ID OJ991027\_18.0118.C5  
Gene No. 43369 Strand +  
Start 4052 End 4149  
Name OJ991027\_18.0118.C5.o1.gp Method AAT/GAP  
Start 4052 End 4149  
GI uC-osflcyp022c06b2 Score 142  
Exons 4052..4149  
GI Descrip. '5042437/gb|AC007789.1|AC007789 8.0e-25 Oryza sativa BAC T49B20  
genomic sequence, complete sequence'

Seq. No. 20785 Seq. ID OJ991027\_18.0118.C5

Gene No. 43370  
 Start 5645  
 Name OJ991027\_18.0118.C5.o2.gp  
 Start 5645  
 GI none  
 Exons 5645..6027

Strand +  
 End 6027  
 Method AAT/GAP  
 End 6027  
 Score 754

Seq. No. 20785  
 Gene No. 43371  
 Start 6017  
 Name OJ991027\_18.0118.C5.o1.ts  
 Start 6017  
 GI none  
 Exons 6017..6067, 6179..6367, 6179..6367, 6294..6368

Seq. ID OJ991027\_18.0118.C5  
 Strand -  
 End 6826  
 Method TBLASTX:Soybean  
 End 6368  
 Score 90

Seq. No. 20785  
 Gene No. 43371  
 Start 6017  
 Name OJ991027\_18.0118.C5.o2.gs  
 Start 6017  
 GI none  
 Exons 6017..6826

Seq. ID OJ991027\_18.0118.C5  
 Strand -  
 End 6826  
 Method GENSCAN  
 End 6826  
 Score .72

Seq. No. 20785  
 Gene No. 43371  
 Start 6017  
 Name OJ991027\_18.0118.C5.o2.tm  
 Start 6101  
 GI none  
 Exons 6101..6373, 6169..6381, 6169..6372, 6179..6379

Seq. ID OJ991027\_18.0118.C5  
 Strand -  
 End 6826  
 Method TBLASTX:Maize  
 End 6381  
 Score 212

Seq. No. 20785  
 Gene No. 43371  
 Start 6017  
 Name OJ991027\_18.0118.C5.o1.tm  
 Start 6386  
 GI none  
 Exons 6386..6484, 6395..6715, 6396..6683, 6706..6783

Seq. ID OJ991027\_18.0118.C5  
 Strand -  
 End 6826  
 Method TBLASTX:Maize  
 End 6783  
 Score 63

Seq. No. 20785  
 Gene No. 43371  
 Start 6017  
 Name OJ991027\_18.0118.C5.o1.tc  
 Start 6533  
 GI none  
 Exons 6533..6712, 6552..6677

Seq. ID OJ991027\_18.0118.C5  
 Strand -  
 End 6826  
 Method TBLASTX:Cress  
 End 6712  
 Score 82

Seq. No. 20786  
 Gene No. 43372  
 Start 7  
 Name OJ991027\_18.0118.C6.o1.gs  
 Start 7  
 GI none  
 Exons 7..174

Seq. ID OJ991027\_18.0118.C6  
 Strand +  
 End 174  
 Method GENSCAN  
 End 174  
 Score .97

Seq. No. 20786  
 Gene No. 43373

Seq. ID OJ991027\_18.0118.C6  
 Strand -

Start	400	End	3043
Name	OJ991027_18.0118.C6.o2.gs	Method	GENSCAN
Start	400	End	2133
GI	none	Score	.97
Exons	400..2133		

Seq. No.	20786	Seq. ID	OJ991027_18.0118.C6
Gene No.	43373	Strand	-
Start	400	End	3043
Name	OJ991027_18.0118.C6.o1.np	Method	AAT/NAP
Start	421	End	3043
GI	4678285	Score	1183
Exons	421..2004, 2960..3043		
GI Descrip.	(AL049660) putative protein [Arabidopsis thaliana]		

Seq. No.	20786	Seq. ID	OJ991027_18.0118.C6
Gene No.	43373	Strand	-
Start	400	End	3043
Name	OJ991027_18.0118.C6.o1.tm	Method	TBLASTX:Maize
Start	424	End	1449
GI	none	Score	61
Exons	424..486, 431..487, 553..609, 724..1176, 725..988, 934..1083, 1037..1171, 1174..1308, 1253..1429, 1264..1449		

Seq. No.	20786	Seq. ID	OJ991027_18.0118.C6
Gene No.	43373	Strand	-
Start	400	End	3043
Name	OJ991027_18.0118.C6.o1.ts	Method	TBLASTX:Soybean
Start	424	End	2002
GI	none	Score	237
Exons	424..609, 655..729, 715..1176, 719..1174, 1180..1233, 1252..1467, 1355..1429, 1492..1632, 1505..1588, 1619..1801, 1633..1800, 1862..2002, 1867..1986		

Seq. No.	20786	Seq. ID	OJ991027_18.0118.C6
Gene No.	43373	Strand	-
Start	400	End	3043
Name	OJ991027_18.0118.C6.o1.tc	Method	TBLASTX:Cress
Start	838	End	1987
GI	none	Score	133
Exons	838..1179, 842..1171, 1183..1230, 1217..1309, 1252..1485, 1489..1623, 1505..1588, 1628..1801, 1633..1803, 1867..1986, 1868..1987		

Seq. No.	20787	Seq. ID	OJ991027_18.0118.C7
Gene No.	43374	Strand	+
Start	680	End	5220
Name	OJ991027_18.0118.C7.o1.gs	Method	GENSCAN
Start	680	End	5106
GI	none	Score	.85
Exons	680..1126, 1838..2110, 2244..2375, 2466..2625, 2753..2960, 3139..3256, 3737..3868, 3950..4084, 4158..4364, 4942..5106		

Seq. No.	20787	Seq. ID	OJ991027_18.0118.C7
Gene No.	43374	Strand	+
Start	680	End	5220
Name	OJ991027_18.0118.C7.o1.np	Method	AAT/NAP

Start	680	End	5103
GI	6382514	Score	2367
Exons	680..1126, 1567..1647, 1838..2110, 2244..2375, 2466..2639, 2731..2960, 3139..3256, 3737..3868, 3950..4084, 4158..4364, 4942..5103		
GI Descrip.	(AC010704) putative acyl-CoA synthetase [Arabidopsis thaliana]		
Seq. No.	20787	Seq. ID	OJ991027_18.0118.C7
Gene No.	43374	Strand	+
Start	680	End	5220
Name	OJ991027_18.0118.C7.o1.gp	Method	AAT/GAP
Start	1913	End	2808
GI	LIB3475-006-P1-K1-A1	Score	1092
Exons	1913..2110, 2244..2375, 2466..2639, 2731..2808		
GI Descrip.	'4587615/gb AAD25843.1 AC006951_22 4.0e-59 (AC006951) putative acyl-CoA synthetase [Arabidopsis thaliana] >gi_4689469_gb_AAD27905.1_AC007213_3 (AC007213) putative acyl-CoA synthetase [Arabidopsis thaliana]'		
Seq. No.	20787	Seq. ID	OJ991027_18.0118.C7
Gene No.	43374	Strand	+
Start	680	End	5220
Name	OJ991027_18.0118.C7.o2.gp	Method	AAT/GAP
Start	4299	End	5220
GI	LIB3433-056-P1-K1-C6	Score	579
Exons	4299..4364, 4942..5220		
GI Descrip.	'4587615/gb AAD25843.1 AC006951_22 4.0e-20 (AC006951) putative acyl-CoA synthetase [Arabidopsis thaliana] >gi_4689469_gb_AAD27905.1_AC007213_3 (AC007213) putative acyl-CoA synthetase [Arabidopsis thaliana]'		
Seq. No.	20787	Seq. ID	OJ991027_18.0118.C7
Gene No.	43375	Strand	-
Start	5630	End	13293
Name	OJ991027_18.0118.C7.o3.gp	Method	AAT/GAP
Start	5630	End	7857
GI	344_1.R1084	Score	1829
Exons	5630..6081, 7024..7309, 7623..7857		
GI Descrip.	'2493147/sp Q40635 VATL ORYSA 5.0e-70 VACUOLAR ATP SYNTHASE 16 KD PROTEOLIPID SUBUNIT >gi_857574 (U27098) H+-ATPase [Oryza sativa]'		
Seq. No.	20787	Seq. ID	OJ991027_18.0118.C7
Gene No.	43375	Strand	-
Start	5630	End	13293
Name	OJ991027_18.0118.C7.o2.gs	Method	GENSCAN
Start	5949	End	13293
GI	none	Score	.61
Exons	5949..6081, 7024..7954, 8761..8898, 9740..9923, 10194..10300, 10436..10619, 10665..10776, 10872..10940, 11044..11136, 11244..11347, 11493..11573, 11649..11856, 11972..12043, 12305..12383, 12951..13293		
Seq. No.	20787	Seq. ID	OJ991027_18.0118.C7
Gene No.	43375	Strand	-
Start	5630	End	13293
Name	OJ991027_18.0118.C7.o2.np	Method	AAT/NAP



Start	5952	End	7701
GI	2493147	Score	752
Exons	5952..6081, 7024..7309, 7623..7701		
GI Descrip.	VACUOLAR ATP SYNTHASE 16 KD PROTEOLIPID SUBUNIT gi 857574 (U27098) H+-ATPase [Oryza sativa]		

Seq. No.	20787	Seq. ID	OJ991027_18.0118.C7
Gene No.	43375	Strand	-
Start	5630	End	13293
Name	OJ991027_18.0118.C7.o4.np	Method	AAT/NAP
Start	9626	End	13275
GI	2648588	Score	150
Exons	9626..9651, 10426..10658, 10872..10912, 11071..11317, 11440..11541, 12022..12243, 12951..13063, 13169..13275		
GI Descrip.	(AE000968) Glu-tRNA amidotransferase, subunit A (gatA-1) [Archaeoglobus fulgidus]		

Seq. No.	20787	Seq. ID	OJ991027_18.0118.C7
Gene No.	43375	Strand	-
Start	5630	End	13293
Name	OJ991027_18.0118.C7.o3.np	Method	AAT/NAP
Start	10399	End	12247
GI	98837	Score	79
Exons	10399..10593, 10723..11040, 11645..11881, 11968..12043, 12168..12247		
GI Descrip.	enantiomere-selective amidase - Rhodococcus sp gi 152052 (M74531) enantiomerase-selective amidase [Rhodococcus sp.]		

Seq. No.	20787	Seq. ID	OJ991027_18.0118.C7
Gene No.	43376	Strand	-
Start	13926	End	17338
Name	OJ991027_18.0118.C7.o3.tm	Method	TBLASTX:Maize
Start	674	End	2282
GI	none	Score	68
Exons	674..739, 677..745, 725..1135, 727..1134, 1557..1643, 1564..1647, 1566..1646, 1835..1984, 1837..1923, 1837..2106, 1856..2110, 1968..2111, 1972..2124, 2237..2281, 2238..2282		

Seq. No.	20787	Seq. ID	OJ991027_18.0118.C7
Gene No.	43376	Strand	-
Start	13926	End	17338
Name	OJ991027_18.0118.C7.o4.tc	Method	TBLASTX:Cress
Start	695	End	1641
GI	none	Score	350
Exons	695..1108, 826..1107, 935..1108, 954..1115, 1579..1641		

Seq. No.	20787	Seq. ID	OJ991027_18.0118.C7
Gene No.	43376	Strand	-
Start	13926	End	17338
Name	OJ991027_18.0118.C7.o5.ts	Method	TBLASTX:Soybean
Start	749	End	952
GI	none	Score	215
Exons	749..952, 749..943		

Seq. No.	20787	Seq. ID	OJ991027_18.0118.C7
Gene No.	43376	Strand	-
Start	13926	End	17338

Name	OJ991027_18.0118.C7.o1.ts	Method	TBLASTX:Soybean
Start	953	End	5127
GI	none	Score	86
Exons	953..1018, 953..1012, 1024..1119, 1025..1135, 1564..1647, 1572..1646, 1856..1942, 1940..2110, 1954..2106, 2234..2377, 2238..2378, 2468..2644, 2469..2642, 2730..2948, 2731..2961, 2778..2960, 3130..3258, 3131..3259, 3737..3871, 3744..3887, 3745..3870, 3943..4086, 3947..4087, 3948..4094, 4155..4367, 4157..4348, 4933..5127, 4944..5099		

Seq. No.	20787	Seq. ID	OJ991027_18.0118.C7
Gene No.	43376	Strand	-
Start	13926	End	17338
Name	OJ991027_18.0118.C7.o1.tc	Method	TBLASTX:Cress
Start	2225	End	2925
GI	none	Score	133
Exons	2225..2374, 2226..2375, 2241..2390, 2465..2644, 2469..2642, 2714..2884, 2729..2884, 2730..2921, 2731..2925, 2781..2924		

Seq. No.	20787	Seq. ID	OJ991027_18.0118.C7
Gene No.	43376	Strand	-
Start	13926	End	17338
Name	OJ991027_18.0118.C7.o1.tm	Method	TBLASTX:Maize
Start	2283	End	3259
GI	none	Score	128
Exons	2283..2375, 2283..2375, 2451..2642, 2469..2642, 2480..2644, 2705..2959, 2731..2961, 2775..2960, 3120..3206, 3131..3259, 3138..3254, 3139..3255		

Seq. No.	20787	Seq. ID	OJ991027_18.0118.C7
Gene No.	43376	Strand	-
Start	13926	End	17338
Name	OJ991027_18.0118.C7.o2.tm	Method	TBLASTX:Maize
Start	3736	End	5106
GI	none	Score	220
Exons	3736..3870, 3737..3868, 3747..3899, 3947..4087, 3949..4086, 4155..4364, 4157..4366, 4157..4363, 4939..5106, 4939..5064, 4941..5099		

Seq. No.	20787	Seq. ID	OJ991027_18.0118.C7
Gene No.	43376	Strand	-
Start	13926	End	17338
Name	OJ991027_18.0118.C7.o2.tc	Method	TBLASTX:Cress
Start	3772	End	5126
GI	none	Score	133
Exons	3772..3870, 3773..3871, 3947..4087, 3949..4107, 4155..4364, 4155..4244, 4157..4345, 4939..5106, 4941..5126		

Seq. No.	20787	Seq. ID	OJ991027_18.0118.C7
Gene No.	43376	Strand	-
Start	13926	End	17338
Name	OJ991027_18.0118.C7.o4.tm	Method	TBLASTX:Maize
Start	5665	End	7704
GI	none	Score	47
Exons	5665..5733, 5692..5736, 5767..5874, 5800..5865, 5808..5867, 5935..6084, 5948..6100, 5949..6083, 5950..6084, 6993..7205, 7023..7307, 7096..7377, 7619..7702, 7621..7704		

Seq. No.	20787	Seq. ID	OJ991027_18.0118.C7
Gene No.	43376	Strand	-
Start	13926	End	17338
Name	OJ991027_18.0118.C7.o2.tw	Method	TBLASTX:Wheat
Start	5740	End	6084
GI	none	Score	37
Exons	5740..5796, 5741..5764, 5758..5796, 5764..5841, 5800..5841, 5850..6083, 5888..6022, 5899..6084, 5899..6084		

Seq. No.	20787	Seq. ID	OJ991027_18.0118.C7
Gene No.	43376	Strand	-
Start	13926	End	17338
Name	OJ991027_18.0118.C7.o2.ts	Method	TBLASTX:Soybean
Start	5949	End	7695
GI	none	Score	120
Exons	5949..6080, 5949..6083, 5950..6084, 7023..7307, 7026..7205, 7096..7347, 7619..7687, 7621..7695		

Seq. No.	20787	Seq. ID	OJ991027_18.0118.C7
Gene No.	43376	Strand	-
Start	13926	End	17338
Name	OJ991027_18.0118.C7.o3.tc	Method	TBLASTX:Cress
Start	5949	End	7696
GI	none	Score	171
Exons	5949..6083, 5953..6117, 5962..6084, 7023..7205, 7023..7307, 7096..7308, 7619..7696, 7621..7695		

Seq. No.	20787	Seq. ID	OJ991027_18.0118.C7
Gene No.	43376	Strand	-
Start	13926	End	17338
Name	OJ991027_18.0118.C7.o1.tw	Method	TBLASTX:Wheat
Start	7044	End	7707
GI	none	Score	141
Exons	7044..7202, 7044..7307, 7096..7377, 7619..7702, 7621..7707		

Seq. No.	20787	Seq. ID	OJ991027_18.0118.C7
Gene No.	43376	Strand	-
Start	13926	End	17338
Name	OJ991027_18.0118.C7.o5.tm	Method	TBLASTX:Maize
Start	10231	End	10754
GI	none	Score	237
Exons	10231..10302, 10416..10607, 10434..10595, 10436..10612, 10436..10612, 10713..10754		

Seq. No.	20787	Seq. ID	OJ991027_18.0118.C7
Gene No.	43376	Strand	-
Start	13926	End	17338
Name	OJ991027_18.0118.C7.o3.ts	Method	TBLASTX:Soybean
Start	10410	End	10942
GI	none	Score	171
Exons	10410..10595, 10436..10612, 10713..10775, 10871..10942		

Seq. No.	20787	Seq. ID	OJ991027_18.0118.C7
Gene No.	43376	Strand	-
Start	13926	End	17338
Name	OJ991027_18.0118.C7.o7.tm	Method	TBLASTX:Maize

Start	10871	End	12984
GI	none	Score	82
Exons	10871..10942, 10872..10937, 11041..11133, 11043..11132, 11262..11354, 11267..11350, 11475..11576, 11479..11574, 11649..11723, 11650..11724, 11814..11864, 11815..11880, 11965..12057, 11966..12028, 11971..12051, 12144..12263, 12152..12244, 12949..12984		

Seq. No.	20787	Seq. ID	OJ991027_18.0118.C7
Gene No.	43376	Strand	-
Start	13926	End	17338
Name	OJ991027_18.0118.C7.o4.ts	Method	TBLASTX:Soybean
Start	11974	End	14244
GI	none	Score	80
Exons	11974..12042, 11975..12043, 12152..12244, 12183..12245, 12949..13056, 13162..13320, 13163..13321, 13168..13326, 14157..14231, 14157..14231, 14158..14244		

Seq. No.	20787	Seq. ID	OJ991027_18.0118.C7
Gene No.	43376	Strand	-
Start	13926	End	17338
Name	OJ991027_18.0118.C7.o5.tc	Method	TBLASTX:Cress
Start	12949	End	14195
GI	none	Score	103
Exons	12949..13068, 13168..13317, 13181..13318, 14157..14195		

Seq. No.	20787	Seq. ID	OJ991027_18.0118.C7
Gene No.	43376	Strand	-
Start	13926	End	17338
Name	OJ991027_18.0118.C7.o8.tm	Method	TBLASTX:Maize
Start	13033	End	15254
GI	none	Score	176
Exons	13033..13062, 13168..13320, 13169..13321, 13171..13326, 14157..14237, 14158..14238, 14158..14247, 15129..15254, 15130..15249, 15132..15254		

Seq. No.	20787	Seq. ID	OJ991027_18.0118.C7
Gene No.	43376	Strand	-
Start	13926	End	17338
Name	OJ991027_18.0118.C7.o3.gs	Method	GENSCAN
Start	13926	End	17331
GI	none	Score	.87
Exons	13926..14020, 14048..14236, 15131..15260, 15459..15649, 15807..15867, 16010..16119, 16253..16512, 17051..17331		

Seq. No.	20787	Seq. ID	OJ991027_18.0118.C7
Gene No.	43376	Strand	-
Start	13926	End	17338
Name	OJ991027_18.0118.C7.o6.tm	Method	TBLASTX:Maize
Start	16895	End	17338
GI	none	Score	56
Exons	16895..16915, 16985..17047, 16989..17045, 17085..17141, 17086..17145, 17090..17146, 17171..17332, 17176..17334, 17177..17338, 17178..17336		

Seq. No.	20788	Seq. ID	OJ991027_18.0118.C8
Gene No.	43377	Strand	-

Start	1	End	2584
Name	OJ991027_18.0118.C8.o1.np	Method	AAT/NAP
Start	1	End	2548
GI	6382503	Score	686
Exons	1..423, 485..820, 995..1360, 1391..1600, 1640..1923, 2260..2548		
GI Descrip.	(AC010704) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	20788	Seq. ID	OJ991027_18.0118.C8
Gene No.	43377	Strand	-
Start	1	End	2584
Name	OJ991027_18.0118.C8.o1.tm	Method	TBLASTX:Maize
Start	1	End	1314
GI	none	Score	67
Exons	1..72, 1..120, 2..121, 3..122, 123..428, 128..1312, 143..433, 166..468, 204..428, 490..1314, 757..1314		

Seq. No.	20788	Seq. ID	OJ991027_18.0118.C8
Gene No.	43377	Strand	-
Start	1	End	2584
Name	OJ991027_18.0118.C8.o1.gs	Method	GENSCAN
Start	71	End	2584
GI	none	Score	.62
Exons	71..1923, 2260..2584		

Seq. No.	20788	Seq. ID	OJ991027_18.0118.C8
Gene No.	43377	Strand	-
Start	1	End	2584
Name	OJ991027_18.0118.C8.o1.gp	Method	AAT/GAP
Start	868	End	1172
GI	3090460	Score	509
Exons	868..1172		

Seq. No.	20788	Seq. ID	OJ991027_18.0118.C8
Gene No.	43377	Strand	-
Start	1	End	2584
Name	OJ991027_18.0118.C8.o2.tm	Method	TBLASTX:Maize
Start	1334	End	2402
GI	none	Score	292
Exons	1334..1645, 1334..1936, 1623..1670, 1693..1890, 1718..1924, 1722..1937, 2257..2364, 2259..2402		

Seq. No.	20788	Seq. ID	OJ991027_18.0118.C8
Gene No.	43377	Strand	-
Start	1	End	2584
Name	OJ991027_18.0118.C8.o1.ts	Method	TBLASTX:Soybean
Start	1649	End	2416
GI	none	Score	155
Exons	1649..1924, 1650..1937, 2258..2416, 2259..2414		

Seq. No.	20788	Seq. ID	OJ991027_18.0118.C8
Gene No.	43377	Strand	-
Start	1	End	2584
Name	OJ991027_18.0118.C8.o2.gp	Method	AAT/GAP
Start	1659	End	2346
GI	3107608	Score	505
Exons	1659..1923, 2260..2346		
GI Descrip.	3036816/emb CAA18506  4.0e-15 (AL022373) myosin-like protein		

[Arabidopsis thaliana]

Seq. No.	20789	Seq. ID	OJ991027_18.0118.C9
Gene No.	43378	Strand	+
Start	1389	End	2569
Name	OJ991027_18.0118.C9.o1.gs	Method	GENSCAN
Start	1389	End	2569
GI	none	Score	.84
Exons	1389..1766, 1937..2063, 2517..2569		

Seq. No.	20789	Seq. ID	OJ991027_18.0118.C9
Gene No.	43379	Strand	-
Start	881	End	2339
Name	OJ991027_18.0118.C9.o1.gp	Method	AAT/GAP
Start	881	End	2339
GI	2280701	Score	500
Exons	881..958, 2089..2339		

Seq. No.	20790	Seq. ID	OJ991027_18.0118.C10
Gene No.	43380	Strand	+
Start	225	End	1389
Name	OJ991027_18.0118.C10.o1.np	Method	AAT/NAP
Start	225	End	1389
GI	5902445	Score	528
Exons	225..845, 1358..1389		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	20790	Seq. ID	OJ991027_18.0118.C10
Gene No.	43380	Strand	+
Start	225	End	1389
Name	OJ991027_18.0118.C10.o1.tw	Method	TBLASTX:Wheat
Start	281	End	629
GI	none	Score	218
Exons	281..490, 289..489, 290..490, 470..628, 510..629		

Seq. No.	20790	Seq. ID	OJ991027_18.0118.C10
Gene No.	43380	Strand	+
Start	225	End	1389
Name	OJ991027_18.0118.C10.o1.gs	Method	GENSCAN
Start	287	End	788
GI	none	Score	.76
Exons	287..418, 585..788		

Seq. No.	20790	Seq. ID	OJ991027_18.0118.C10
Gene No.	43380	Strand	+
Start	225	End	1389
Name	OJ991027_18.0118.C10.o1.tm	Method	TBLASTX:Maize
Start	302	End	659
GI	none	Score	204
Exons	302..502, 344..496, 470..631, 510..659		

Seq. No.	20790	Seq. ID	OJ991027_18.0118.C10
Gene No.	43380	Strand	+
Start	225	End	1389
Name	OJ991027_18.0118.C10.o2.tw	Method	TBLASTX:Wheat
Start	630	End	832
GI	none	Score	206

Exons 630..824, 657..827, 728..832

Seq. No.	20791	Seq. ID	OJ991027_18.0118.C11
Gene No.	43381	Strand	-
Start	1	End	685
Name	OJ991027_18.0118.C11.ol.np	Method	AAT/NAP
Start	1	End	685
GI	4512682	Score	347
Exons	1..68, 155..382, 478..685		
GI Descrip.	(AC006931) unknown protein [Arabidopsis thaliana]		

Seq. No.	20791	Seq. ID	OJ991027_18.0118.C11
Gene No.	43381	Strand	-
Start	1	End	685
Name	OJ991027_18.0118.C11.ol.gs	Method	GENSCAN
Start	92	End	624
GI	none	Score	.69
Exons	92..382, 478..624		

Seq. No.	20791	Seq. ID	OJ991027_18.0118.C11
Gene No.	43381	Strand	-
Start	1	End	685
Name	OJ991027_18.0118.C11.ol.tc	Method	TBLASTX:Cress
Start	194	End	663
GI	none	Score	118
Exons	194..247, 228..383, 229..384, 230..382, 268..384, 466..603, 469..663, 479..646		

Seq. No.	20792	Seq. ID	OJ991027_18.0118.C12
Gene No.	43382	Strand	+
Start	506	End	592
Name	OJ991027_18.0118.C12.ol.gs	Method	GENSCAN
Start	506	End	592
GI	none	Score	.97
Exons	506..592		

Seq. No.	20793	Seq. ID	OJ991027_18.0118.C13
Gene No.	43383	Strand	-
Start	3268	End	3763
Name	OJ991027_18.0118.C13.ol.gp	Method	AAT/GAP
Start	3268	End	3763
GI	none	Score	933
Exons	3268..3763		

Seq. No.	20794	Seq. ID	OJ991027_18.0118.C14
Gene No.	43384	Strand	-
Start	278	End	2201
Name	OJ991027_18.0118.C14.ol.gs	Method	GENSCAN
Start	278	End	2201
GI	none	Score	.67
Exons	278..415, 1821..2050, 2055..2201		

Seq. No.	20794	Seq. ID	OJ991027_18.0118.C14
Gene No.	43384	Strand	-
Start	278	End	2201
Name	OJ991027_18.0118.C14.ol.gp	Method	AAT/GAP
Start	1244	End	1714

GI	3106574	Score	543
Exons	1244..1325, 1394..1463, 1548..1714		
Seq. No.	20794	Seq. ID	OJ991027_18.0118.C14
Gene No.	43384	Strand	-
Start	278	End	2201
Name	OJ991027_18.0118.C14.o2.gp	Method	AAT/GAP
Start	1972	End	2092
GI	uC-osflM202081b05b1	Score	195
Exons	1972..2092		
GI Descrip.	'4581150/gb AAD24634.1 AC006919_12 1.0e-12 (AC006919) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	20795	Seq. ID	OJ991027_18.0118.C15
Gene No.	43385	Strand	+
Start	1	End	4356
Name	OJ991027_18.0118.C15.o1.np	Method	AAT/NAP
Start	1	End	4356
GI	4581150	Score	986
Exons	1..186, 793..925, 1701..1852, 2171..2249, 2480..2593, 2694..2760, 2861..2966, 3058..3129, 3214..3335, 3421..3520, 3601..3662, 4112..4217, 4333..4356		
GI Descrip.	(AC006919) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	20795	Seq. ID	OJ991027_18.0118.C15
Gene No.	43385	Strand	+
Start	1	End	4356
Name	OJ991027_18.0118.C15.o2.tc	Method	TBLASTX:Cress
Start	24	End	188
GI	none	Score	218
Exons	24..188, 28..186		

Seq. No.	20795	Seq. ID	OJ991027_18.0118.C15
Gene No.	43385	Strand	+
Start	1	End	4356
Name	OJ991027_18.0118.C15.o3.tm	Method	TBLASTX:Maize
Start	24	End	1873
GI	none	Score	207
Exons	24..191, 28..192, 790..927, 801..929, 804..926, 805..927, 848..931, 1693..1872, 1694..1873		

Seq. No.	20795	Seq. ID	OJ991027_18.0118.C15
Gene No.	43385	Strand	+
Start	1	End	4356
Name	OJ991027_18.0118.C15.o2.ts	Method	TBLASTX:Soybean
Start	27	End	1846
GI	none	Score	227
Exons	27..188, 28..186, 790..927, 792..929, 1694..1846, 1694..1783, 1699..1845		

Seq. No.	20795	Seq. ID	OJ991027_18.0118.C15
Gene No.	43385	Strand	+
Start	1	End	4356
Name	OJ991027_18.0118.C15.o1.gs	Method	GENSCAN
Start	112	End	4213
GI	none	Score	.94
Exons	112..186, 793..925, 1701..1871, 2171..2249, 2480..2593,		



2830..2966, 3601..3683, 4124..4213

Seq. No.	20795	Seq. ID	OJ991027_18.0118.C15
Gene No.	43385	Strand	+
Start	1	End	4356
Name	OJ991027_18.0118.C15.o1.tc	Method	TBLASTX:Cress
Start	790	End	3261
GI	none	Score	84
Exons	790..927, 2478..2594, 2689..2769, 2839..2961, 2846..2962, 3057..3113, 3238..3261		

Seq. No.	20795	Seq. ID	OJ991027_18.0118.C15
Gene No.	43385	Strand	+
Start	1	End	4356
Name	OJ991027_18.0118.C15.o1.ts	Method	TBLASTX:Soybean
Start	2176	End	3513
GI	none	Score	88
Exons	2176..2250, 2478..2594, 2480..2593, 2686..2775, 2692..2775, 2849..2962, 2851..2961, 3053..3118, 3057..3119, 3202..3285, 3204..3308, 3460..3513		

Seq. No.	20795	Seq. ID	OJ991027_18.0118.C15
Gene No.	43385	Strand	+
Start	1	End	4356
Name	OJ991027_18.0118.C15.o2.tm	Method	TBLASTX:Maize
Start	2179	End	2941
GI	none	Score	90
Exons	2179..2250, 2185..2247, 2186..2254, 2477..2593, 2480..2593, 2481..2594, 2503..2616, 2689..2769, 2700..2762, 2819..2941, 2839..2940, 2858..2941		

Seq. No.	20795	Seq. ID	OJ991027_18.0118.C15
Gene No.	43385	Strand	+
Start	1	End	4356
Name	OJ991027_18.0118.C15.o1.tm	Method	TBLASTX:Maize
Start	2942	End	4218
GI	none	Score	40
Exons	2942..2965, 2943..2969, 2944..2967, 3055..3117, 3056..3118, 3057..3119, 3060..3134, 3202..3267, 3203..3268, 3203..3268, 3204..3275, 3276..3308, 3283..3312, 3379..3522, 3379..3519, 3392..3520, 3599..3679, 3606..3683, 3608..3652, 3639..3683, 4124..4213, 4124..4213, 4171..4218		

Seq. No.	20795	Seq. ID	OJ991027_18.0118.C15
Gene No.	43385	Strand	+
Start	1	End	4356
Name	OJ991027_18.0118.C15.o1.gp	Method	AAT/GAP
Start	3080	End	3721
GI	2428646	Score	614
Exons	3080..3116, 3204..3313, 3393..3520, 3601..3721		
GI Descrip.	4581150/gb AAD24634.1 AC006919_12 1.0e-12 (AC006919) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	20796	Seq. ID	OJ991027_18.0118.C16
Gene No.	43386	Strand	-
Start	2095	End	2492
Name	OJ991027_18.0118.C16.o1.gp	Method	AAT/GAP

Start	2095	End	2492
GI	uC-osflcyp172a09a1	Score	595
Exons	2095..2492		
GI Descrip.	'5803242/dbj AP000399.1 AP000399 1.0e-35 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04'		

Seq. No.	20796	Seq. ID	OJ991027_18.0118.C16
Gene No.	43387	Strand	-
Start	6728	End	7241
Name	OJ991027_18.0118.C16.o2.gp	Method	AAT/GAP
Start	6728	End	7241
GI	38782_1.R1084	Score	769
Exons	6728..7241		
GI Descrip.	'6069643/dbj AP000616.1 AP000616 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	20796	Seq. ID	OJ991027_18.0118.C16
Gene No.	43388	Strand	-
Start	10669	End	15260
Name	OJ991027_18.0118.C16.o1.np	Method	AAT/NAP
Start	10669	End	15260
GI	4680179	Score	4530
Exons	10669..14086, 14189..15260		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	20796	Seq. ID	OJ991027_18.0118.C16
Gene No.	43389	Strand	-
Start	15745	End	16526
Name	OJ991027_18.0118.C16.o2.np	Method	AAT/NAP
Start	15745	End	16526
GI	6002794	Score	1258
Exons	15745..16526		
GI Descrip.	(AF149813) unknown [Oryza sativa]		

Seq. No.	20796	Seq. ID	OJ991027_18.0118.C16
Gene No.	43390	Strand	-
Start	16823	End	17316
Name	OJ991027_18.0118.C16.o5.tw	Method	TBLASTX:Wheat
Start	10713	End	11046
GI	none	Score	101
Exons	10713..11045, 10734..10883, 10777..11046		

Seq. No.	20796	Seq. ID	OJ991027_18.0118.C16
Gene No.	43390	Strand	-
Start	16823	End	17316
Name	OJ991027_18.0118.C16.o9.tm	Method	TBLASTX:Maize
Start	10728	End	10886
GI	none	Score	188
Exons	10728..10886		

Seq. No.	20796	Seq. ID	OJ991027_18.0118.C16
Gene No.	43390	Strand	-
Start	16823	End	17316
Name	OJ991027_18.0118.C16.o1.tm	Method	TBLASTX:Maize
Start	10896	End	11493
GI	none	Score	69
Exons	10896..10991, 10896..11333, 10906..11115, 11064..11333,		

11331..11489, 11338..11484, 11341..11493

Seq. No.	20796	Seq. ID	OJ991027_18.0118.C16
Gene No.	43390	Strand	-
Start	16823	End	17316
Name	OJ991027_18.0118.C16.o1.tw	Method	TBLASTX:Wheat
Start	11046	End	11672
GI	none	Score	152
Exons	11046..11672, 11097..11567, 11170..11616		

Seq. No.	20796	Seq. ID	OJ991027_18.0118.C16
Gene No.	43390	Strand	-
Start	16823	End	17316
Name	OJ991027_18.0118.C16.o4.tm	Method	TBLASTX:Maize
Start	11541	End	11831
GI	none	Score	120
Exons	11541..11831, 11544..11759, 11545..11820		

Seq. No.	20796	Seq. ID	OJ991027_18.0118.C16
Gene No.	43390	Strand	-
Start	16823	End	17316
Name	OJ991027_18.0118.C16.o2.ts	Method	TBLASTX:Soybean
Start	11632	End	11886
GI	none	Score	165
Exons	11632..11886, 11634..11879		

Seq. No.	20796	Seq. ID	OJ991027_18.0118.C16
Gene No.	43390	Strand	-
Start	16823	End	17316
Name	OJ991027_18.0118.C16.o1.tc	Method	TBLASTX:Cress
Start	11655	End	11972
GI	none	Score	95
Exons	11655..11798, 11671..11796, 11799..11951, 11799..11972		

Seq. No.	20796	Seq. ID	OJ991027_18.0118.C16
Gene No.	43390	Strand	-
Start	16823	End	17316
Name	OJ991027_18.0118.C16.o3.tw	Method	TBLASTX:Wheat
Start	11679	End	12203
GI	none	Score	258
Exons	11679..12203, 11683..12051		

Seq. No.	20796	Seq. ID	OJ991027_18.0118.C16
Gene No.	43390	Strand	-
Start	16823	End	17316
Name	OJ991027_18.0118.C16.o2.tm	Method	TBLASTX:Maize
Start	12246	End	12599
GI	none	Score	222
Exons	12246..12599, 12283..12597		

Seq. No.	20796	Seq. ID	OJ991027_18.0118.C16
Gene No.	43390	Strand	-
Start	16823	End	17316
Name	OJ991027_18.0118.C16.o2.tw	Method	TBLASTX:Wheat
Start	12246	End	12671
GI	none	Score	116
Exons	12246..12671, 12248..12610, 12261..12614, 12298..12663		

Seq. No.	20796	Seq. ID	OJ991027_18.0118.C16
Gene No.	43390	Strand	-
Start	16823	End	17316
Name	OJ991027_18.0118.C16.o3.ts	Method	TBLASTX:Soybean
Start	12420	End	12665
GI	none	Score	202
Exons	12420..12665		

Seq. No.	20796	Seq. ID	OJ991027_18.0118.C16
Gene No.	43390	Strand	-
Start	16823	End	17316
Name	OJ991027_18.0118.C16.o5.tm	Method	TBLASTX:Maize
Start	12606	End	12953
GI	none	Score	65
Exons	12606..12953, 12751..12921		

Seq. No.	20796	Seq. ID	OJ991027_18.0118.C16
Gene No.	43390	Strand	-
Start	16823	End	17316
Name	OJ991027_18.0118.C16.o6.tw	Method	TBLASTX:Wheat
Start	12678	End	12974
GI	none	Score	166
Exons	12678..12974, 12715..12930		

Seq. No.	20796	Seq. ID	OJ991027_18.0118.C16
Gene No.	43390	Strand	-
Start	16823	End	17316
Name	OJ991027_18.0118.C16.o1.ts	Method	TBLASTX:Soybean
Start	12687	End	13082
GI	none	Score	139
Exons	12687..13046, 12715..12930, 13050..13082, 13050..13082		

Seq. No.	20796	Seq. ID	OJ991027_18.0118.C16
Gene No.	43390	Strand	-
Start	16823	End	17316
Name	OJ991027_18.0118.C16.o3.tm	Method	TBLASTX:Maize
Start	12969	End	13436
GI	none	Score	86
Exons	12969..13436, 13188..13364, 13192..13365		

Seq. No.	20796	Seq. ID	OJ991027_18.0118.C16
Gene No.	43390	Strand	-
Start	16823	End	17316
Name	OJ991027_18.0118.C16.o4.tw	Method	TBLASTX:Wheat
Start	13023	End	13506
GI	none	Score	269
Exons	13023..13505, 13054..13506		

Seq. No.	20796	Seq. ID	OJ991027_18.0118.C16
Gene No.	43390	Strand	-
Start	16823	End	17316
Name	OJ991027_18.0118.C16.o8.tm	Method	TBLASTX:Maize
Start	13437	End	13634
GI	none	Score	153
Exons	13437..13634, 13438..13584		

Seq. No.	20796	Seq. ID	OJ991027_18.0118.C16
Gene No.	43390	Strand	-
Start	16823	End	17316
Name	OJ991027_18.0118.C16.o7.tw	Method	TBLASTX:Wheat
Start	13647	End	14051
GI	none	Score	84
Exons	13647..13817, 13702..13821, 13830..14051, 13897..14007, 13998..14051		

Seq. No.	20796	Seq. ID	OJ991027_18.0118.C16
Gene No.	43390	Strand	-
Start	16823	End	17316
Name	OJ991027_18.0118.C16.o7.tm	Method	TBLASTX:Maize
Start	13734	End	14058
GI	none	Score	61
Exons	13734..14057, 13945..14058		

Seq. No.	20796	Seq. ID	OJ991027_18.0118.C16
Gene No.	43390	Strand	-
Start	16823	End	17316
Name	OJ991027_18.0118.C16.o6.tm	Method	TBLASTX:Maize
Start	14367	End	14768
GI	none	Score	240
Exons	14367..14768		

Seq. No.	20796	Seq. ID	OJ991027_18.0118.C16
Gene No.	43390	Strand	-
Start	16823	End	17316
Name	OJ991027_18.0118.C16.o8.tw	Method	TBLASTX:Wheat
Start	14649	End	15026
GI	none	Score	266
Exons	14649..15026		

Seq. No.	20796	Seq. ID	OJ991027_18.0118.C16
Gene No.	43390	Strand	-
Start	16823	End	17316
Name	OJ991027_18.0118.C16.o3.gp	Method	AAT/GAP
Start	16823	End	17316
GI	38782_1.R1084	Score	803
Exons	16823..17316		
GI Descrip.	'6069643/dbj AP000616.1 AP000616 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	20797	Seq. ID	OJ991027_16.0118.C2
Gene No.	43391	Strand	+
Start	96	End	402
Name	OJ991027_16.0118.C2.o1.gs	Method	GENSCAN
Start	96	End	402
GI	none	Score	.82
Exons	96..402		

Seq. No.	20798	Seq. ID	OJ991027_16.0118.C4
Gene No.	43392	Strand	-
Start	270	End	8995
Name	OJ991027_16.0118.C4.o1.gs	Method	GENSCAN
Start	270	End	971
GI	none	Score	.61

Exons 270..391, 818..971

Seq. No.	20798	Seq. ID	OJ991027_16.0118.C4
Gene No.	43392	Strand	-
Start	270	End	8995
Name	OJ991027_16.0118.C4.o1.np	Method	AAT/NAP
Start	273	End	4466
GI	6815052	Score	471
Exons	273..392, 663..736, 818..980, 4450..4466		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	20798	Seq. ID	OJ991027_16.0118.C4
Gene No.	43392	Strand	-
Start	270	End	8995
Name	OJ991027_16.0118.C4.o2.np	Method	AAT/NAP
Start	972	End	8995
GI	1175115	Score	90
Exons	972..1145, 1635..1763, 3458..3635, 7406..7504, 8890..8995		
GI Descrip.	HYPOTHETICAL 24.1 KD PROTEIN IN LEF4-P33 INTERGENIC REGION gi 559160 gb AAA66721  (L22858) AcOrf-91 peptide [Autographa californica nucleopolyhedrovirus]		

Seq. No.	20798	Seq. ID	OJ991027_16.0118.C4
Gene No.	43392	Strand	-
Start	270	End	8995
Name	OJ991027_16.0118.C4.o2.gs	Method	GENSCAN
Start	1371	End	1862
GI	none	Score	1
Exons	1371..1862		

Seq. No.	20798	Seq. ID	OJ991027_16.0118.C4
Gene No.	43392	Strand	-
Start	270	End	8995
Name	OJ991027_16.0118.C4.o3.gs	Method	GENSCAN
Start	2653	End	5037
GI	none	Score	.73
Exons	2653..3440, 4134..4230, 4490..4690, 4804..5037		

Seq. No.	20798	Seq. ID	OJ991027_16.0118.C4
Gene No.	43393	Strand	-
Start	10381	End	10989
Name	OJ991027_16.0118.C4.o1.ts	Method	TBLASTX:Soybean
Start	3055	End	10989
GI	none	Score	189
Exons	3055..3276, 3282..3344, 7967..8125, 8159..8200, 8234..8281, 10726..10989		

Seq. No.	20798	Seq. ID	OJ991027_16.0118.C4
Gene No.	43393	Strand	-
Start	10381	End	10989
Name	OJ991027_16.0118.C4.o5.gs	Method	GENSCAN
Start	10381	End	10941
GI	none	Score	.97
Exons	10381..10941		

Seq. No.	20798	Seq. ID	OJ991027_16.0118.C4
Gene No.	43393	Strand	-

Start	10381	End	10989
Name	OJ991027_16.0118.C4.o3.np	Method	AAT/NAP
Start	10672	End	10989
GI	4741204	Score	155
Exons	10672..10989		
GI Descrip.	(AL049746) putative protein [Arabidopsis thaliana]		

Seq. No.	20799	Seq. ID	OJ991027_16.0118.C5
Gene No.	43394	Strand	+
Start	346	End	3053
Name	OJ991027_16.0118.C5.o1.gs	Method	GENSCAN
Start	346	End	2854
GI	none	Score	.67
Exons	346..494, 646..791, 2568..2854		

Seq. No.	20799	Seq. ID	OJ991027_16.0118.C5
Gene No.	43394	Strand	+
Start	346	End	3053
Name	OJ991027_16.0118.C5.o1.np	Method	AAT/NAP
Start	692	End	3053
GI	5922634	Score	127
Exons	692..807, 3033..3053		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016867 dbj BAA85210.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	20799	Seq. ID	OJ991027_16.0118.C5
Gene No.	43395	Strand	-
Start	3537	End	5108
Name	OJ991027_16.0118.C5.o2.gs	Method	GENSCAN
Start	3537	End	5108
GI	none	Score	.47
Exons	3537..3625, 4919..5108		

Seq. No.	20800	Seq. ID	OJ991027_16.0118.C6
Gene No.	43396	Strand	+
Start	641	End	820
Name	OJ991027_16.0118.C6.o1.gs	Method	GENSCAN
Start	641	End	820
GI	none	Score	.51
Exons	641..820		

Seq. No.	20801	Seq. ID	OJ991027_16.0118.C7
Gene No.	43397	Strand	-
Start	1	End	2955
Name	OJ991027_16.0118.C7.o1.np	Method	AAT/NAP
Start	1	End	2955
GI	3892045	Score	697
Exons	1..177, 219..385, 1684..2083, 2177..2227, 2824..2955		
GI Descrip.	(AC002330) putative zinc finger protein [Arabidopsis thaliana]		

Seq. No.	20801	Seq. ID	OJ991027_16.0118.C7
Gene No.	43397	Strand	-
Start	1	End	2955
Name	OJ991027_16.0118.C7.o1.gs	Method	GENSCAN
Start	95	End	2450
GI	none	Score	.47

Exons 95..385, 1684..2083, 2177..2378, 2448..2450

Seq. No. 20801 Seq. ID OJ991027\_16.0118.C7  
Gene No. 43397 Strand -  
Start 1 End 2955  
Name OJ991027\_16.0118.C7.ol.tc Method TBLASTX:Cress  
Start 331 End 2084  
GI none Score 90  
Exons 331..396, 1692..1769, 1693..1767, 1803..1928, 1807..1920,  
1908..2006, 1909..1965, 1975..2007, 2001..2084, 2002..2043

Seq. No. 20801 Seq. ID OJ991027\_16.0118.C7  
Gene No. 43397 Strand -  
Start 1 End 2955  
Name OJ991027\_16.0118.C7.ol.tm Method TBLASTX:Maize  
Start 343 End 2084  
GI none Score 66  
Exons 343..387, 344..388, 1692..1925, 1696..1926, 1905..2084,  
1930..2043

Seq. No. 20801 Seq. ID OJ991027\_16.0118.C7  
Gene No. 43397 Strand -  
Start 1 End 2955  
Name OJ991027\_16.0118.C7.ol.ts Method TBLASTX:Soybean  
Start 1803 End 2207  
GI none Score 267  
Exons 1803..2084, 1807..2043, 2178..2207

Seq. No. 20802 Seq. ID OJ991027\_16.0118.C8  
Gene No. 43398 Strand +  
Start 979 End 1793  
Name OJ991027\_16.0118.C8.ol.gs Method GENSCAN  
Start 979 End 1793  
GI none Score .44  
Exons 979..1044, 1783..1793

Seq. No. 20803 Seq. ID OJ991027\_16.0118.C9  
Gene No. 43399 Strand +  
Start 1646 End 2248  
Name OJ991027\_16.0118.C9.ol.gs Method GENSCAN  
Start 1646 End 2248  
GI none Score .6  
Exons 1646..1811, 2136..2248

Seq. No. 20803 Seq. ID OJ991027\_16.0118.C9  
Gene No. 43400 Strand -  
Start 3241 End 12969  
Name OJ991027\_16.0118.C9.o2.gs Method GENSCAN  
Start 3241 End 12969  
GI none Score .78  
Exons 3241..3334, 3952..4104, 5641..5779, 6452..6476, 6802..6903,  
8905..8995, 9067..9185, 9348..9845, 9958..10098, 10476..10526,  
11151..11279, 11398..11460, 11827..12969

Seq. No. 20803 Seq. ID OJ991027\_16.0118.C9  
Gene No. 43401 Strand -  
Start 13461 End 14210



Name	OJ991027_16.0118.C9.o1.tm	Method	TBLASTX:Maize
Start	9246	End	9489
GI	none	Score	125
Exons	9246..9362, 9247..9363, 9363..9488, 9367..9489		

Seq. No.	20803	Seq. ID	OJ991027_16.0118.C9
Gene No.	43401	Strand	-
Start	13461	End	14210
Name	OJ991027_16.0118.C9.o3.gs	Method	GENSCAN
Start	13461	End	14210
GI	none	Score	.98
Exons	13461..13579, 13681..13774, 13825..14210		

Seq. No.	20804	Seq. ID	OJ991027_16.0118.C10
Gene No.	43402	Strand	+
Start	2152	End	6125
Name	OJ991027_16.0118.C10.o2.gs	Method	GENSCAN
Start	2152	End	6125
GI	none	Score	.57
Exons	2152..2440, 3117..3328, 3543..3736, 3741..4437, 5252..5391, 5497..5552, 5653..6125		

Seq. No.	20804	Seq. ID	OJ991027_16.0118.C10
Gene No.	43403	Strand	+
Start	15304	End	19210
Name	OJ991027_16.0118.C10.o4.gs	Method	GENSCAN
Start	15304	End	19164
GI	none	Score	.5
Exons	15304..15764, 16236..16313, 16519..16638, 17107..18891, 19095..19164		

Seq. No.	20804	Seq. ID	OJ991027_16.0118.C10
Gene No.	43403	Strand	+
Start	15304	End	19210
Name	OJ991027_16.0118.C10.o1.np	Method	AAT/NAP
Start	15472	End	19210
GI	6466937	Score	855
Exons	15472..15504, 17175..19210		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	20804	Seq. ID	OJ991027_16.0118.C10
Gene No.	43404	Strand	-
Start	3121	End	3590
Name	OJ991027_16.0118.C10.o1.gp	Method	AAT/GAP
Start	3121	End	3590
GI	none	Score	820
Exons	3121..3590		

Seq. No.	20804	Seq. ID	OJ991027_16.0118.C10
Gene No.	43405	Strand	-
Start	8798	End	14300
Name	OJ991027_16.0118.C10.o2.gp	Method	AAT/GAP
Start	8683	End	9765
GI	none	Score	1418
Exons	8683..8899, 8972..9136, 9378..9765		

Seq. No.	20804	Seq. ID	OJ991027_16.0118.C10
Gene No.	43405	Strand	-
Start	8798	End	14300
Name	OJ991027_16.0118.C10.o3.gs	Method	GENSCAN
Start	8798	End	14300
GI	none	Score	.46
Exons	8798..8899, 8972..9136, 10841..11182, 11393..11522, 11650..11871, 12534..12617, 13615..13668, 14218..14300		

Seq. No.	20804	Seq. ID	OJ991027_16.0118.C10
Gene No.	43405	Strand	-
Start	8798	End	14300
Name	OJ991027_16.0118.C10.o3.gp	Method	AAT/GAP
Start	12974	End	14266
GI	LIB3475-008-P1-K1-F9	Score	706
Exons	12974..13099, 13257..13344, 13609..13668, 14152..14266		
GI Descrip.	'5803242/dbj AP000399.1 AP000399 7.0e-30 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04'		

Seq. No.	20804	Seq. ID	OJ991027_16.0118.C10
Gene No.	43406	Strand	
Start	15337	End	15663
Name	OJ991027_16.0118.C10.o2.tm	Method	TBLASTX:Maize
Start	15337	End	15663
GI	none	Score	74
Exons	15337..15522, 15606..15662, 15607..15663		

Seq. No.	20804	Seq. ID	OJ991027_16.0118.C10
Gene No.	43407	Strand	
Start	18590	End	19125
Name	OJ991027_16.0118.C10.o1.tw	Method	TBLASTX:Wheat
Start	18590	End	19024
GI	none	Score	379
Exons	18590..19024, 18742..18897, 18755..19015		

Seq. No.	20804	Seq. ID	OJ991027_16.0118.C10
Gene No.	43407	Strand	
Start	18590	End	19125
Name	OJ991027_16.0118.C10.o1.ts	Method	TBLASTX:Soybean
Start	18626	End	18940
GI	none	Score	237
Exons	18626..18940		

Seq. No.	20804	Seq. ID	OJ991027_16.0118.C10
Gene No.	43407	Strand	
Start	18590	End	19125
Name	OJ991027_16.0118.C10.o1.tm	Method	TBLASTX:Maize
Start	18641	End	19125
GI	none	Score	368
Exons	18641..19015, 18731..18913, 18931..19014, 19011..19082, 19012..19125		

Seq. No.	20805	Seq. ID	OJ991027_16.0118.C11
Gene No.	43408	Strand	+
Start	1	End	929
Name	OJ991027_16.0118.C11.o1.np	Method	AAT/NAP
Start	1	End	929

GI 3810596 Score 625  
 Exons 1..929  
 GI Descrip. (AC005398) putative retroelement pol polyprotein [Arabidopsis thaliana]

Seq. No. 20805 Seq. ID OJ991027\_16.0118.C11  
 Gene No. 43409 Strand +  
 Start 5413 End 6209  
 Name OJ991027\_16.0118.C11.o2.tm Method TBLASTX:Maize  
 Start 6 End 286  
 GI none Score 246  
 Exons 6..209, 17..208, 224..286

Seq. No. 20805 Seq. ID OJ991027\_16.0118.C11  
 Gene No. 43409 Strand +  
 Start 5413 End 6209  
 Name OJ991027\_16.0118.C11.o2.tw Method TBLASTX:Wheat  
 Start 9 End 322  
 GI none Score 163  
 Exons 9..206, 254..322

Seq. No. 20805 Seq. ID OJ991027\_16.0118.C11  
 Gene No. 43409 Strand +  
 Start 5413 End 6209  
 Name OJ991027\_16.0118.C11.o1.tm Method TBLASTX:Maize  
 Start 287 End 919  
 GI none Score 42  
 Exons 287..331, 389..754, 451..537, 586..645, 764..919

Seq. No. 20805 Seq. ID OJ991027\_16.0118.C11  
 Gene No. 43409 Strand +  
 Start 5413 End 6209  
 Name OJ991027\_16.0118.C11.o1.tw Method TBLASTX:Wheat  
 Start 395 End 799  
 GI none Score 279  
 Exons 395..799, 448..528, 586..666

Seq. No. 20805 Seq. ID OJ991027\_16.0118.C11  
 Gene No. 43409 Strand +  
 Start 5413 End 6209  
 Name OJ991027\_16.0118.C11.o2.np Method AAT/NAP  
 Start 5413 End 6209  
 GI 4510398 Score 139  
 Exons 5413..5572, 6017..6209  
 GI Descrip. (AC006587) hypothetical protein [Arabidopsis thaliana]

Seq. No. 20806 Seq. ID OJ991027\_16.0118.C12  
 Gene No. 43410 Strand +  
 Start 21 End 398  
 Name OJ991027\_16.0118.C12.o1.gs Method GENSCAN  
 Start 21 End 398  
 GI none Score 1  
 Exons 21..398

Seq. No. 20806 Seq. ID OJ991027\_16.0118.C12  
 Gene No. 43411 Strand +  
 Start 7490 End 22451

Name	OJ991027_16.0118.C12.o4.gs	Method	GENSCAN
Start	7490	End	22451
GI	none	Score	.49
Exons	7490..7628, 7694..7729, 8296..8466, 8901..8949, 8951..9014, 11137..11244, 11249..11476, 12330..12721, 13028..13197, 17702..17875, 18510..18647, 21703..21864, 22105..22451		

Seq. No.	20806	Seq. ID	OJ991027_16.0118.C12
Gene No.	43411	Strand	+
Start	7490	End	22451
Name	OJ991027_16.0118.C12.o2.gp	Method	AAT/GAP
Start	17671	End	21793
GI	LIB3433-024-P1-K1-D7	Score	741
Exons	17671..17875, 18510..18647, 21703..21793		
GI Descrip.	'4240041/dbj BAA74807.1  9.0e-15 (AB018591) ZmGR2c [Zea mays]'		

Seq. No.	20806	Seq. ID	OJ991027_16.0118.C12
Gene No.	43411	Strand	+
Start	7490	End	22451
Name	OJ991027_16.0118.C12.o5.np	Method	AAT/NAP
Start	17725	End	22448
GI	4240041	Score	531
Exons	17725..17875, 18510..18647, 21703..21864, 22096..22448		
GI Descrip.	(AB018591) ZmGR2c [Zea mays]		

Seq. No.	20806	Seq. ID	OJ991027_16.0118.C12
Gene No.	43412	Strand	-
Start	1	End	825
Name	OJ991027_16.0118.C12.o1.np	Method	AAT/NAP
Start	1	End	825
GI	6041790	Score	107
Exons	1..56, 656..825		
GI Descrip.	(AC009755) putative NADPH-ferrihemoprotein reductase [Arabidopsis thaliana]		

Seq. No.	20806	Seq. ID	OJ991027_16.0118.C12
Gene No.	43413	Strand	-
Start	1567	End	5838
Name	OJ991027_16.0118.C12.o2.np	Method	AAT/NAP
Start	1567	End	5736
GI	3413699	Score	504
Exons	1567..1588, 3350..3405, 3626..4024, 5431..5736		
GI Descrip.	(AC004747) putative heat shock transcription factor [Arabidopsis thaliana]		

Seq. No.	20806	Seq. ID	OJ991027_16.0118.C12
Gene No.	43413	Strand	-
Start	1567	End	5838
Name	OJ991027_16.0118.C12.o3.gs	Method	GENSCAN
Start	3278	End	5838
GI	none	Score	.42
Exons	3278..4024, 5431..5838		

Seq. No.	20806	Seq. ID	OJ991027_16.0118.C12
Gene No.	43414	Strand	-
Start	7542	End	12689
Name	OJ991027_16.0118.C12.o1.tc	Method	TBLASTX:Cress

Start	3581	End	5622
GI	none	Score	108
Exons	3581..3853, 3929..4024, 3933..4025, 5423..5530, 5431..5532, 5548..5622		

Seq. No.	20806	Seq. ID	OJ991027_16.0118.C12
Gene No.	43414	Strand	-
Start	7542	End	12689
Name	OJ991027_16.0118.C12.o1.ts	Method	TBLASTX:Soybean
Start	3638	End	5622
GI	none	Score	63
Exons	3638..3889, 3665..3889, 3929..4024, 3939..4025, 5423..5530, 5431..5547, 5431..5532, 5554..5622		

Seq. No.	20806	Seq. ID	OJ991027_16.0118.C12
Gene No.	43414	Strand	-
Start	7542	End	12689
Name	OJ991027_16.0118.C12.o1.tm	Method	TBLASTX:Maize
Start	3893	End	5619
GI	none	Score	81
Exons	3893..4024, 3936..4025, 5431..5529, 5431..5538, 5432..5539, 5542..5619		

Seq. No.	20806	Seq. ID	OJ991027_16.0118.C12
Gene No.	43414	Strand	-
Start	7542	End	12689
Name	OJ991027_16.0118.C12.o1.tw	Method	TBLASTX:Wheat
Start	3941	End	5622
GI	none	Score	74
Exons	3941..4024, 3951..4025, 5417..5548, 5431..5547, 5539..5622		

Seq. No.	20806	Seq. ID	OJ991027_16.0118.C12
Gene No.	43414	Strand	-
Start	7542	End	12689
Name	OJ991027_16.0118.C12.o3.np	Method	AAT/NAP
Start	7542	End	12689
GI	5852172	Score	127
Exons	7542..7619, 7741..7844, 12652..12689		
GI Descrip.	(AL117265) zhb0002.1 [Oryza sativa]		

Seq. No.	20806	Seq. ID	OJ991027_16.0118.C12
Gene No.	43414	Strand	-
Start	7542	End	12689
Name	OJ991027_16.0118.C12.o4.np	Method	AAT/NAP
Start	9043	End	9427
GI	132909	Score	117
Exons	9043..9112, 9366..9427		
GI Descrip.	50S RIBOSOMAL PROTEIN L34 gi 71360 pir  R6PS34 ribosomal protein L34 - Pseudomonas putida gi 45706 emb CAA44414  (X62540) homologous to E.coli rpmH [Pseudomonas putida]		

Seq. No.	20806	Seq. ID	OJ991027_16.0118.C12
Gene No.	43414	Strand	-
Start	7542	End	12689
Name	OJ991027_16.0118.C12.o1.gp	Method	AAT/GAP
Start	9279	End	11423
GI	none	Score	860

Exons 9279..9465, 11154..11423

Seq. No.	20806	Seq. ID	OJ991027_16.0118.C12
Gene No.	43415	Strand	
Start	21695	End	22856
Name	OJ991027_16.0118.C12.o2.tm	Method	TBLASTX:Maize
Start	21695	End	22856
GI	none	Score	92
Exons	21695..21748, 21702..21770, 21703..21771, 21764..21802, 21768..21803, 21771..21827, 21798..21866, 22161..22253, 22165..22251, 22329..22436, 22372..22428, 22377..22478, 22526..22543, 22529..22543, 22541..22564, 22542..22562, 22593..22694, 22657..22695, 22800..22856		

Seq. No.	20807	Seq. ID	OJ991027_16.0118.C13
Gene No.	43416	Strand	-
Start	274	End	1013
Name	OJ991027_16.0118.C13.o1.np	Method	AAT/NAP
Start	274	End	1013
GI	4972110	Score	161
Exons	274..369, 471..579, 695..1013		
GI Descrip.	(AL078579) putative calcium binding protein [Arabidopsis thaliana]		

Seq. No.	20807	Seq. ID	OJ991027_16.0118.C13
Gene No.	43416	Strand	-
Start	274	End	1013
Name	OJ991027_16.0118.C13.o1.gs	Method	GENSCAN
Start	598	End	968
GI	none	Score	.88
Exons	598..650, 692..968		

Seq. No.	20807	Seq. ID	OJ991027_16.0118.C13
Gene No.	43416	Strand	-
Start	274	End	1013
Name	OJ991027_16.0118.C13.o1.tm	Method	TBLASTX:Maize
Start	810	End	983
GI	none	Score	99
Exons	810..983, 811..897		

Seq. No.	20808	Seq. ID	OJ991027_16.0118.C15
Gene No.	43417	Strand	+
Start	1921	End	3250
Name	OJ991027_16.0118.C15.o1.tm	Method	TBLASTX:Maize
Start	1919	End	3250
GI	none	Score	266
Exons	1919..2149, 1922..2086, 1935..2087, 2155..2280, 2181..2282, 2186..2281, 3128..3226, 3129..3221, 3215..3250		

Seq. No.	20808	Seq. ID	OJ991027_16.0118.C15
Gene No.	43417	Strand	+
Start	1921	End	3250
Name	OJ991027_16.0118.C15.o1.gs	Method	GENSCAN
Start	1921	End	3250
GI	none	Score	.86
Exons	1921..2085, 2185..2281, 3095..3250		

Seq. No.	20809	Seq. ID	OJ991027_16.0118.C16
Gene No.	43418	Strand	+
Start	164	End	285
Name	OJ991027_16.0118.C16.o1.gs	Method	GENSCAN
Start	164	End	285
GI	none	Score	.85
Exons	164..285		

Seq. No.	20809	Seq. ID	OJ991027_16.0118.C16
Gene No.	43419	Strand	-
Start	1424	End	5412
Name	OJ991027_16.0118.C16.o2.gs	Method	GENSCAN
Start	1424	End	5412
GI	none	Score	.46
Exons	1424..1698, 4566..4712, 5289..5412		

Seq. No.	20809	Seq. ID	OJ991027_16.0118.C16
Gene No.	43420	Strand	
Start	7072	End	7473
Name	OJ991027_16.0118.C16.o1.tw	Method	TBLASTX:Wheat
Start	7072	End	7473
GI	none	Score	216
Exons	7072..7473		

Seq. No.	20810	Seq. ID	OJ991027_16.0118.C17
Gene No.	43421	Strand	+
Start	3428	End	4049
Name	OJ991027_16.0118.C17.o1.tc	Method	TBLASTX:Cress
Start	3275	End	3790
GI	none	Score	63
Exons	3275..3331, 3277..3336, 3429..3647, 3429..3587, 3728..3790, 3733..3789		

Seq. No.	20810	Seq. ID	OJ991027_16.0118.C17
Gene No.	43421	Strand	+
Start	3428	End	4049
Name	OJ991027_16.0118.C17.o1.ts	Method	TBLASTX:Soybean
Start	3277	End	3790
GI	none	Score	69
Exons	3277..3372, 3415..3588, 3428..3481, 3429..3620, 3432..3587, 3728..3790		

Seq. No.	20810	Seq. ID	OJ991027_16.0118.C17
Gene No.	43421	Strand	+
Start	3428	End	4049
Name	OJ991027_16.0118.C17.o1.tw	Method	TBLASTX:Wheat
Start	3277	End	3790
GI	none	Score	83
Exons	3277..3342, 3285..3332, 3404..3484, 3432..3623, 3432..3608, 3448..3636, 3535..3636, 3603..3638, 3721..3789, 3722..3790		

Seq. No.	20810	Seq. ID	OJ991027_16.0118.C17
Gene No.	43421	Strand	+
Start	3428	End	4049
Name	OJ991027_16.0118.C17.o2.np	Method	AAT/NAP
Start	3428	End	4049
GI	3927831	Score	228

Exons 3428..3635, 3734..3851, 4027..4049  
 GI Descrip. (AC005727) putative RING zinc finger ankyrin protein  
 [Arabidopsis thaliana]

Seq. No.	20810	Seq. ID	OJ991027_16.0118.C17
Gene No.	43421	Strand	+
Start	3428	End	4049
Name	OJ991027_16.0118.C17.o1.gp	Method	AAT/GAP
Start	3429	End	3608
GI	26024_1.R1084	Score	323
Exons	3429..3608		
GI Descrip.	'3927831 2.0e-98 (AC005727) similar to mouse ankyrin 3 [Arabidopsis thaliana]'		

Seq. No.	20811	Seq. ID	OJ991027_16.0118.C19
Gene No.	43422	Strand	-
Start	712	End	790
Name	OJ991027_16.0118.C19.o1.gp	Method	AAT/GAP
Start	712	End	790
GI	LIB3477-003-P1-K1-E9	Score	95
Exons	712..790		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	20812	Seq. ID	OJ991027_16.0118.C20
Gene No.	43423	Strand	+
Start	142	End	289
Name	OJ991027_16.0118.C20.o1.gs	Method	GENSCAN
Start	142	End	289
GI	none	Score	.54
Exons	142..289		

Seq. No.	20813	Seq. ID	OJ991027_16.0118.C21
Gene No.	43424	Strand	-
Start	28	End	132
Name	OJ991027_16.0118.C21.o1.gs	Method	GENSCAN
Start	28	End	132
GI	none	Score	.89
Exons	28..132		

Seq. No.	20814	Seq. ID	OJ991007_16.0110.C1
Gene No.	43425	Strand	+
Start	1	End	842
Name	OJ991007_16.0110.C1.o2.np	Method	AAT/NAP
Start	1	End	842
GI	6069659	Score	112
Exons	1..22, 688..842		
GI Descrip.	(AP000616) hypothetical protein [Oryza sativa]		

Seq. No.	20814	Seq. ID	OJ991007_16.0110.C1
Gene No.	43425	Strand	+
Start	1	End	842
Name	OJ991007_16.0110.C1.o1.np	Method	AAT/NAP
Start	71	End	842
GI	6907088	Score	470
Exons	71..205, 358..842		



GI Descrip. (AP001129) hypothetical protein [Oryza sativa]

Seq. No.	20815	Seq. ID	OJ991007_16.0110.C2
Gene No.	43426	Strand	+
Start	136	End	579
Name	OJ991007_16.0110.C2.o1.gs	Method	GENSCAN
Start	136	End	579
GI	none	Score	.93
Exons	136..233, 323..579		

Seq. No.	20816	Seq. ID	OJ991007_16.0110.C3
Gene No.	43427	Strand	-
Start	105	End	332
Name	OJ991007_16.0110.C3.o1.gs	Method	GENSCAN
Start	105	End	332
GI	none	Score	.95
Exons	105..173, 260..332		

Seq. No.	20817	Seq. ID	OJ991007_16.0110.C5
Gene No.	43428	Strand	-
Start	1	End	3697
Name	OJ991007_16.0110.C5.o1.np	Method	AAT/NAP
Start	1	End	3677
GI	6539581	Score	671
Exons	1..113, 183..456, 560..841, 923..1374, 1489..2122, 2272..2428, 3638..3677		

GI Descrip. (AP000837) Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone F20D10; hypothetical protein (AL035538) [Oryza sativa]

Seq. No.	20817	Seq. ID	OJ991007_16.0110.C5
Gene No.	43428	Strand	-
Start	1	End	3697
Name	OJ991007_16.0110.C5.o1.gs	Method	GENSCAN
Start	60	End	3697
GI	none	Score	.86
Exons	60..456, 918..1083, 1485..2182, 2276..2492, 2586..2660, 3294..3368, 3447..3542, 3645..3697		

Seq. No.	20817	Seq. ID	OJ991007_16.0110.C5
Gene No.	43428	Strand	-
Start	1	End	3697
Name	OJ991007_16.0110.C5.o2.tw	Method	TBLASTX:Wheat
Start	346	End	1794
GI	none	Score	53
Exons	346..465, 571..690, 581..682, 729..833, 1628..1654, 1735..1794		

Seq. No.	20817	Seq. ID	OJ991007_16.0110.C5
Gene No.	43428	Strand	-
Start	1	End	3697
Name	OJ991007_16.0110.C5.o2.tm	Method	TBLASTX:Maize
Start	924	End	1262
GI	none	Score	183
Exons	924..1262		

Seq. No.	20817	Seq. ID	OJ991007_16.0110.C5
Gene No.	43428	Strand	-
Start	1	End	3697

Name	OJ991007_16.0110.C5.o1.tw	Method	TBLASTX:Wheat
Start	1017	End	1561
GI	none	Score	66
Exons	1017..1349, 1490..1561		
Seq. No.	20817	Seq. ID	OJ991007_16.0110.C5
Gene No.	43428	Strand	-
Start	1	End	3697
Name	OJ991007_16.0110.C5.o1.ts	Method	TBLASTX:Soybean
Start	1056	End	1736
GI	none	Score	140
Exons	1056..1355, 1490..1735, 1491..1697, 1517..1699, 1584..1736		
Seq. No.	20817	Seq. ID	OJ991007_16.0110.C5
Gene No.	43428	Strand	-
Start	1	End	3697
Name	OJ991007_16.0110.C5.o1.tm	Method	TBLASTX:Maize
Start	1263	End	1795
GI	none	Score	122
Exons	1263..1349, 1490..1795, 1491..1694		
Seq. No.	20817	Seq. ID	OJ991007_16.0110.C5
Gene No.	43428	Strand	-
Start	1	End	3697
Name	OJ991007_16.0110.C5.o1.tc	Method	TBLASTX:Cress
Start	1488	End	1849
GI	none	Score	122
Exons	1488..1598, 1490..1849, 1491..1742		
Seq. No.	20818	Seq. ID	OJ991007_16.0110.C7
Gene No.	43429	Strand	+
Start	984	End	3405
Name	OJ991007_16.0110.C7.o1.np	Method	AAT/NAP
Start	984	End	3405
GI	6721512	Score	57
Exons	984..1117, 2578..2690, 3381..3405		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		
Seq. No.	20818	Seq. ID	OJ991007_16.0110.C7
Gene No.	43430	Strand	-
Start	2237	End	2873
Name	OJ991007_16.0110.C7.o1.gs	Method	GENSCAN
Start	2237	End	2873
GI	none	Score	.52
Exons	2237..2627, 2743..2873		
Seq. No.	20819	Seq. ID	OJ991007_16.0110.C8
Gene No.	43431	Strand	-
Start	24	End	3424
Name	OJ991007_16.0110.C8.o1.gs	Method	GENSCAN
Start	24	End	3424
GI	none	Score	.48
Exons	24..82, 1169..1267, 2077..2180, 2567..2739, 3362..3424		
Seq. No.	20820	Seq. ID	OJ991007_16.0110.C10
Gene No.	43432	Strand	+
Start	5425	End	8933

Name	OJ991007_16.0110.C10.o2.gs	Method	GENSCAN
Start	5425	End	8933
GI	none	Score	.41
Exons	5425..5569, 6663..6839, 7476..7646, 8785..8933		

Seq. No.	20820	Seq. ID	OJ991007_16.0110.C10
Gene No.	43433	Strand	+
Start	9831	End	10037
Name	OJ991007_16.0110.C10.o3.gs	Method	GENSCAN
Start	9831	End	10037
GI	none	Score	1
Exons	9831..10037		

Seq. No.	20820	Seq. ID	OJ991007_16.0110.C10
Gene No.	43434	Strand	-
Start	1	End	3413
Name	OJ991007_16.0110.C10.o1.np	Method	AAT/NAP
Start	1	End	3413
GI	4539351	Score	853
Exons	1..165, 257..547, 630..704, 2729..2883, 2986..3184, 3235..3413		
GI Descrip.	(AL035539) putative protein [Arabidopsis thaliana]		

Seq. No.	20820	Seq. ID	OJ991007_16.0110.C10
Gene No.	43434	Strand	-
Start	1	End	3413
Name	OJ991007_16.0110.C10.o1.gs	Method	GENSCAN
Start	26	End	3413
GI	none	Score	.76
Exons	26..165, 257..547, 630..704, 2729..2883, 2986..3102, 3194..3413		

Seq. No.	20820	Seq. ID	OJ991007_16.0110.C10
Gene No.	43435	Strand	-
Start	9154	End	11765
Name	OJ991007_16.0110.C10.o1.ts	Method	TBLASTX:Soybean
Start	5	End	487
GI	none	Score	142
Exons	5..178, 7..165, 256..435, 257..451, 257..487, 258..485		

Seq. No.	20820	Seq. ID	OJ991007_16.0110.C10
Gene No.	43435	Strand	-
Start	9154	End	11765
Name	OJ991007_16.0110.C10.o1.tm	Method	TBLASTX:Maize
Start	13	End	442
GI	none	Score	118
Exons	13..165, 20..163, 257..442, 261..440		

Seq. No.	20820	Seq. ID	OJ991007_16.0110.C10
Gene No.	43435	Strand	-
Start	9154	End	11765
Name	OJ991007_16.0110.C10.o1.tc	Method	TBLASTX:Cress
Start	34	End	548
GI	none	Score	76
Exons	34..165, 35..109, 257..547, 261..440, 477..548		

Seq. No.	20820	Seq. ID	OJ991007_16.0110.C10
Gene No.	43435	Strand	-
Start	9154	End	11765

Name	OJ991007_16.0110.C10.o4.tm	Method	TBLASTX:Maize
Start	476	End	710
GI	none	Score	112
Exons	476..547, 477..548, 484..558, 499..558, 622..705, 630..710, 630..707		

Seq. No.	20820	Seq. ID	OJ991007_16.0110.C10
Gene No.	43435	Strand	-
Start	9154	End	11765
Name	OJ991007_16.0110.C10.o4.ts	Method	TBLASTX:Soybean
Start	645	End	3082
GI	none	Score	70
Exons	645..716, 2756..2893, 2757..2891, 2990..3082		

Seq. No.	20820	Seq. ID	OJ991007_16.0110.C10
Gene No.	43435	Strand	-
Start	9154	End	11765
Name	OJ991007_16.0110.C10.o2.tm	Method	TBLASTX:Maize
Start	2726	End	3104
GI	none	Score	97
Exons	2726..2788, 2730..2810, 2789..2902, 2790..2891, 2965..3054, 2985..3104, 2987..3082		

Seq. No.	20820	Seq. ID	OJ991007_16.0110.C10
Gene No.	43435	Strand	-
Start	9154	End	11765
Name	OJ991007_16.0110.C10.o3.np	Method	AAT/NAP
Start	9154	End	11765
GI	2827518	Score	96
Exons	9154..9248, 11608..11765		
GI Descrip.	(AL021633) putative protein [Arabidopsis thaliana]		

Seq. No.	20820	Seq. ID	OJ991007_16.0110.C10
Gene No.	43435	Strand	-
Start	9154	End	11765
Name	OJ991007_16.0110.C10.o3.ts	Method	TBLASTX:Soybean
Start	9830	End	10040
GI	none	Score	79
Exons	9830..9961, 9830..10015, 9831..10040		

Seq. No.	20820	Seq. ID	OJ991007_16.0110.C10
Gene No.	43435	Strand	-
Start	9154	End	11765
Name	OJ991007_16.0110.C10.o4.gs	Method	GENSCAN
Start	10852	End	11740
GI	none	Score	.99
Exons	10852..10927, 11107..11225, 11318..11427, 11557..11740		

Seq. No.	20820	Seq. ID	OJ991007_16.0110.C10
Gene No.	43435	Strand	-
Start	9154	End	11765
Name	OJ991007_16.0110.C10.o2.np	Method	AAT/NAP
Start	10855	End	11731
GI	6714413	Score	393
Exons	10855..10927, 11107..11225, 11318..11427, 11557..11731		
GI Descrip.	(AC012328) unknown protein [Arabidopsis thaliana]		

Seq. No.	20820	Seq. ID	OJ991007_16.0110.C10
Gene No.	43435	Strand	-
Start	9154	End	11765
Name	OJ991007_16.0110.C10.o2.ts	Method	TBLASTX:Soybean
Start	10859	End	11723
GI	none	Score	70
Exons	10859..10930, 10861..10944, 10864..10929, 11100..11207, 11100..11228, 11107..11217, 11315..11437, 11558..11722, 11658..11723		

Seq. No.	20820	Seq. ID	OJ991007_16.0110.C10
Gene No.	43435	Strand	-
Start	9154	End	11765
Name	OJ991007_16.0110.C10.o3.tm	Method	TBLASTX:Maize
Start	11100	End	11723
GI	none	Score	74
Exons	11100..11207, 11100..11228, 11107..11217, 11315..11437, 11558..11722, 11658..11723		

Seq. No.	20820	Seq. ID	OJ991007_16.0110.C10
Gene No.	43435	Strand	-
Start	9154	End	11765
Name	OJ991007_16.0110.C10.o1.tw	Method	TBLASTX:Wheat
Start	11106	End	11737
GI	none	Score	125
Exons	11106..11228, 11107..11226, 11315..11437, 11336..11386, 11558..11623, 11559..11618, 11624..11734, 11642..11737		

Seq. No.	20820	Seq. ID	OJ991007_16.0110.C10
Gene No.	43435	Strand	-
Start	9154	End	11765
Name	OJ991007_16.0110.C10.o2.tc	Method	TBLASTX:Cress
Start	11106	End	11723
GI	none	Score	87
Exons	11106..11270, 11125..11220, 11315..11437, 11558..11722, 11559..11723		

Seq. No.	20821	Seq. ID	OJ991007_16.0110.C12
Gene No.	43436	Strand	-
Start	17	End	184
Name	OJ991007_16.0110.C12.o1.gs	Method	GENSCAN
Start	17	End	184
GI	none	Score	.71
Exons	17..184		

Seq. No.	20822	Seq. ID	OJ991007_16.0110.C13
Gene No.	43437	Strand	+
Start	222	End	3059
Name	OJ991007_16.0110.C13.o1.np	Method	AAT/NAP
Start	222	End	3059
GI	4680179	Score	3199
Exons	222..1275, 1303..3059		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	20822	Seq. ID	OJ991007_16.0110.C13
Gene No.	43437	Strand	+
Start	222	End	3059

Name	OJ991007_16.0110.C13.o1.gs	Method	GENSCAN
Start	265	End	2950
GI	none	Score	.48
Exons	265..611, 636..813, 910..1360, 1530..2950		

Seq. No.	20822	Seq. ID	OJ991007_16.0110.C13
Gene No.	43437	Strand	+
Start	222	End	3059
Name	OJ991007_16.0110.C13.o6.tw	Method	TBLASTX:Wheat
Start	426	End	624
GI	none	Score	208
Exons	426..623, 427..624, 451..624		

Seq. No.	20822	Seq. ID	OJ991007_16.0110.C13
Gene No.	43437	Strand	+
Start	222	End	3059
Name	OJ991007_16.0110.C13.o4.tw	Method	TBLASTX:Wheat
Start	673	End	1026
GI	none	Score	296
Exons	673..870, 676..1026		

Seq. No.	20822	Seq. ID	OJ991007_16.0110.C13
Gene No.	43437	Strand	+
Start	222	End	3059
Name	OJ991007_16.0110.C13.o3.tm	Method	TBLASTX:Maize
Start	676	End	1014
GI	none	Score	247
Exons	676..1014, 676..972		

Seq. No.	20822	Seq. ID	OJ991007_16.0110.C13
Gene No.	43437	Strand	+
Start	222	End	3059
Name	OJ991007_16.0110.C13.o5.tw	Method	TBLASTX:Wheat
Start	1360	End	1714
GI	none	Score	143
Exons	1360..1509, 1526..1714		

Seq. No.	20822	Seq. ID	OJ991007_16.0110.C13
Gene No.	43437	Strand	+
Start	222	End	3059
Name	OJ991007_16.0110.C13.o5.tm	Method	TBLASTX:Maize
Start	1748	End	1909
GI	none	Score	185
Exons	1748..1909, 1756..1863		

Seq. No.	20822	Seq. ID	OJ991007_16.0110.C13
Gene No.	43437	Strand	+
Start	222	End	3059
Name	OJ991007_16.0110.C13.o2.tw	Method	TBLASTX:Wheat
Start	1846	End	2329
GI	none	Score	536
Exons	1846..2286, 1847..2329, 1958..2326		

Seq. No.	20822	Seq. ID	OJ991007_16.0110.C13
Gene No.	43437	Strand	+
Start	222	End	3059
Name	OJ991007_16.0110.C13.o3.ts	Method	TBLASTX:Soybean

Start 1883  
GI none  
Exons 1883..2197

End 2197  
Score 199

Seq. No. 20822  
Gene No. 43437  
Start 222  
Name OJ991007\_16.0110.C13.o2.tm  
Start 1912  
GI none  
Exons 1912..2349, 1916..2383

Seq. ID OJ991007\_16.0110.C13  
Strand +  
End 3059  
Method TBLASTX:Maize  
End 2383  
Score 399

Seq. No. 20822  
Gene No. 43437  
Start 222  
Name OJ991007\_16.0110.C13.o1.ts  
Start 2270  
GI none  
Exons 2270..2302, 2270..2302, 2306..2665, 2308..2349, 2422..2655

Seq. ID OJ991007\_16.0110.C13  
Strand +  
End 3059  
Method TBLASTX:Soybean  
End 2665  
Score 57

Seq. No. 20822  
Gene No. 43437  
Start 222  
Name OJ991007\_16.0110.C13.o3.tw  
Start 2378  
GI none  
Exons 2378..2647, 2419..2646

Seq. ID OJ991007\_16.0110.C13  
Strand +  
End 3059  
Method TBLASTX:Wheat  
End 2647  
Score 376

Seq. No. 20822  
Gene No. 43437  
Start 222  
Name OJ991007\_16.0110.C13.o4.tm  
Start 2384  
GI none  
Exons 2384..2545, 2419..2544

Seq. ID OJ991007\_16.0110.C13  
Strand +  
End 3059  
Method TBLASTX:Maize  
End 2545  
Score 201

Seq. No. 20822  
Gene No. 43437  
Start 222  
Name OJ991007\_16.0110.C13.o1.tm  
Start 2561  
GI none  
Exons 2561..2968, 2605..2976, 2614..2937, 2960..3001

Seq. ID OJ991007\_16.0110.C13  
Strand +  
End 3059  
Method TBLASTX:Maize  
End 3001  
Score 436

Seq. No. 20822  
Gene No. 43437  
Start 222  
Name OJ991007\_16.0110.C13.o1.tw  
Start 2650  
GI none  
Exons 2650..3048, 2651..3058, 2729..3058

Seq. ID OJ991007\_16.0110.C13  
Strand +  
End 3059  
Method TBLASTX:Wheat  
End 3058  
Score 562

Seq. No. 20822  
Gene No. 43437  
Start 222  
Name OJ991007\_16.0110.C13.o2.ts  
Start 2687

Seq. ID OJ991007\_16.0110.C13  
Strand +  
End 3059  
Method TBLASTX:Soybean  
End 2935

GI	none	Score	207
Exons	2687..2935		
Seq. No.	20823	Seq. ID	OJ991007_16.0110.C14
Gene No.	43438	Strand	+
Start	1	End	1231
Name	OJ991007_16.0110.C14.o1.np	Method	AAT/NAP
Start	1	End	1228
GI	4680179	Score	1916
Exons	1..1228		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	20823	Seq. ID	OJ991007_16.0110.C14
Gene No.	43438	Strand	+
Start	1	End	1231
Name	OJ991007_16.0110.C14.o1.gs	Method	GENSCAN
Start	29	End	1231
GI	none	Score	.94
Exons	29..1231		

Seq. No.	20823	Seq. ID	OJ991007_16.0110.C14
Gene No.	43439	Strand	-
Start	1628	End	1865
Name	OJ991007_16.0110.C14.o2.tw	Method	TBLASTX:Wheat
Start	2	End	1811
GI	none	Score	338
Exons	2..217, 10..213, 1761..1811		

Seq. No.	20823	Seq. ID	OJ991007_16.0110.C14
Gene No.	43439	Strand	-
Start	1628	End	1865
Name	OJ991007_16.0110.C14.o1.ts	Method	TBLASTX:Soybean
Start	5	End	265
GI	none	Score	301
Exons	5..265, 16..264		

Seq. No.	20823	Seq. ID	OJ991007_16.0110.C14
Gene No.	43439	Strand	-
Start	1628	End	1865
Name	OJ991007_16.0110.C14.o2.tm	Method	TBLASTX:Maize
Start	63	End	355
GI	none	Score	90
Exons	63..167, 64..351, 65..355, 197..352		

Seq. No.	20823	Seq. ID	OJ991007_16.0110.C14
Gene No.	43439	Strand	-
Start	1628	End	1865
Name	OJ991007_16.0110.C14.o1.tw	Method	TBLASTX:Wheat
Start	224	End	850
GI	none	Score	727
Exons	224..850, 226..735, 395..808, 781..849		

Seq. No.	20823	Seq. ID	OJ991007_16.0110.C14
Gene No.	43439	Strand	-
Start	1628	End	1865
Name	OJ991007_16.0110.C14.o1.tm	Method	TBLASTX:Maize
Start	403	End	988



GI	none	Score	229
Exons	403..558, 404..565, 562..723, 563..988, 781..987		
Seq. No.	20823	Seq. ID	OJ991007_16.0110.C14
Gene No.	43439	Strand	-
Start	1628	End	1865
Name	OJ991007_16.0110.C14.o3.tw	Method	TBLASTX:Wheat
Start	850	End	1183
GI	none	Score	309
Exons	850..1131, 851..1183, 1001..1132		
Seq. No.	20823	Seq. ID	OJ991007_16.0110.C14
Gene No.	43439	Strand	-
Start	1628	End	1865
Name	OJ991007_16.0110.C14.o2.gs	Method	GENSCAN
Start	1628	End	1865
GI	none	Score	.85
Exons	1628..1775, 1858..1865		
Seq. No.	20824	Seq. ID	OJ991007_16.0110.C16
Gene No.	43440	Strand	+
Start	1568	End	2089
Name	OJ991007_16.0110.C16.o1.gs	Method	GENSCAN
Start	1568	End	2088
GI	none	Score	.95
Exons	1568..2088		
Seq. No.	20824	Seq. ID	OJ991007_16.0110.C16
Gene No.	43440	Strand	+
Start	1568	End	2089
Name	OJ991007_16.0110.C16.o1.tm	Method	TBLASTX:Maize
Start	1679	End	2089
GI	none	Score	120
Exons	1679..1813, 1711..1809, 1846..2088, 1847..2089		
Seq. No.	20824	Seq. ID	OJ991007_16.0110.C16
Gene No.	43440	Strand	+
Start	1568	End	2089
Name	OJ991007_16.0110.C16.o1.np	Method	AAT/NAP
Start	1740	End	2089
GI	6759430	Score	185
Exons	1740..2089		
GI Descrip.	(AL137189) putative protein [Arabidopsis thaliana]		
Seq. No.	20824	Seq. ID	OJ991007_16.0110.C16
Gene No.	43440	Strand	+
Start	1568	End	2089
Name	OJ991007_16.0110.C16.o1.tc	Method	TBLASTX:Cress
Start	1937	End	2089
GI	none	Score	194
Exons	1937..2089, 1939..2088		
Seq. No.	20825	Seq. ID	OJ991007_16.0110.C17
Gene No.	43441	Strand	+
Start	1296	End	1467
Name	OJ991007_16.0110.C17.o1.tm	Method	TBLASTX:Maize
Start	1293	End	1467

GI	none	Score	161
Exons	1293..1388, 1294..1434, 1405..1467, 1407..1466		

Seq. No.	20825	Seq. ID	OJ991007_16.0110.C17
Gene No.	43441	Strand	+
Start	1296	End	1467
Name	OJ991007_16.0110.C17.o1.gs	Method	GENSCAN
Start	1296	End	1421
GI	none	Score	.4
Exons	1296..1421		

Seq. No.	20826	Seq. ID	OJ991007_16.0110.C18
Gene No.	43442	Strand	-
Start	822	End	914
Name	OJ991007_16.0110.C18.o1.gs	Method	GENSCAN
Start	822	End	914
GI	none	Score	.43
Exons	822..914		

Seq. No.	20827	Seq. ID	OJ991007_16.0110.C19
Gene No.	43443	Strand	-
Start	1	End	784
Name	OJ991007_16.0110.C19.o1.np	Method	AAT/NAP
Start	1	End	784
GI	6907086	Score	834
Exons	1..784		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	20827	Seq. ID	OJ991007_16.0110.C19
Gene No.	43443	Strand	-
Start	1	End	784
Name	OJ991007_16.0110.C19.o1.gs	Method	GENSCAN
Start	73	End	576
GI	none	Score	.98
Exons	73..576		

Seq. No.	20828	Seq. ID	OJ991007_16.0110.C20
Gene No.	43444	Strand	+
Start	124	End	615
Name	OJ991007_16.0110.C20.o1.gp	Method	AAT/GAP
Start	124	End	615
GI	38782.1.R1084	Score	799
Exons	124..615		
GI Descrip.	'6069643/dbj AP000616.1 AP000616 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	20828	Seq. ID	OJ991007_16.0110.C20
Gene No.	43445	Strand	+
Start	2190	End	5349
Name	OJ991007_16.0110.C20.o1.np	Method	AAT/NAP
Start	2190	End	5349
GI	4680179	Score	2405
Exons	2190..3243, 3346..5048, 5320..5349		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	20828	Seq. ID	OJ991007_16.0110.C20
Gene No.	43445	Strand	+

Start 2190  
 Name OJ991007\_16.0110.C20.o5.tw  
 Start 2406  
 GI none  
 Exons 2406..2783

End 5349  
 Method TBLASTX:Wheat  
 End 2783  
 Score 256

Seq. No. 20828  
 Gene No. 43445  
 Start 2190  
 Name OJ991007\_16.0110.C20.o3.tm  
 Start 2664  
 GI none  
 Exons 2664..3065

Seq. ID OJ991007\_16.0110.C20  
 Strand +  
 End 5349  
 Method TBLASTX:Maize  
 End 3065  
 Score 233

Seq. No. 20828  
 Gene No. 43445  
 Start 2190  
 Name OJ991007\_16.0110.C20.o4.tm  
 Start 3375  
 GI none  
 Exons 3375..3698, 3378..3515, 3617..3700

Seq. ID OJ991007\_16.0110.C20  
 Strand +  
 End 5349  
 Method TBLASTX:Maize  
 End 3700  
 Score 200

Seq. No. 20828  
 Gene No. 43445  
 Start 2190  
 Name OJ991007\_16.0110.C20.o3.tw  
 Start 3381  
 GI none  
 Exons 3381..3602, 3381..3434, 3425..3535, 3611..3757, 3615..3785

Seq. ID OJ991007\_16.0110.C20  
 Strand +  
 End 5349  
 Method TBLASTX:Wheat  
 End 3785  
 Score 163

Seq. No. 20828  
 Gene No. 43445  
 Start 2190  
 Name OJ991007\_16.0110.C20.o5.tm  
 Start 3798  
 GI none  
 Exons 3798..3995, 3896..3994

Seq. ID OJ991007\_16.0110.C20  
 Strand +  
 End 5349  
 Method TBLASTX:Maize  
 End 3995  
 Score 199

Seq. No. 20828  
 Gene No. 43445  
 Start 2190  
 Name OJ991007\_16.0110.C20.o1.tw  
 Start 3926  
 GI none  
 Exons 3926..4381, 3927..4409

Seq. ID OJ991007\_16.0110.C20  
 Strand +  
 End 5349  
 Method TBLASTX:Wheat  
 End 4409  
 Score 530

Seq. No. 20828  
 Gene No. 43445  
 Start 2190  
 Name OJ991007\_16.0110.C20.o2.tm  
 Start 3996  
 GI none  
 Exons 3996..4463, 4068..4241

Seq. ID OJ991007\_16.0110.C20  
 Strand +  
 End 5349  
 Method TBLASTX:Maize  
 End 4463  
 Score 373

Seq. No. 20828  
 Gene No. 43445  
 Start 2190

Seq. ID OJ991007\_16.0110.C20  
 Strand +  
 End 5349

Name	OJ991007_16.0110.C20.o1.ts	Method	TBLASTX:Soybean
Start	4350	End	4745
GI	none	Score	56
Exons	4350..4382, 4367..4462, 4386..4745, 4502..4717		
Seq. No.	20828	Seq. ID	OJ991007_16.0110.C20
Gene No.	43445	Strand	+
Start	2190	End	5349
Name	OJ991007_16.0110.C20.o2.tw	Method	TBLASTX:Wheat
Start	4458	End	4859
GI	none	Score	467
Exons	4458..4859, 4502..4858		
Seq. No.	20828	Seq. ID	OJ991007_16.0110.C20
Gene No.	43445	Strand	+
Start	2190	End	5349
Name	OJ991007_16.0110.C20.o1.tm	Method	TBLASTX:Maize
Start	4646	End	5039
GI	none	Score	392
Exons	4646..5026, 4647..5039		
Seq. No.	20828	Seq. ID	OJ991007_16.0110.C20
Gene No.	43445	Strand	+
Start	2190	End	5349
Name	OJ991007_16.0110.C20.o2.ts	Method	TBLASTX:Soybean
Start	4767	End	5012
GI	none	Score	210
Exons	4767..5012		
Seq. No.	20828	Seq. ID	OJ991007_16.0110.C20
Gene No.	43445	Strand	+
Start	2190	End	5349
Name	OJ991007_16.0110.C20.o4.tw	Method	TBLASTX:Wheat
Start	4860	End	5039
GI	none	Score	261
Exons	4860..5039, 4868..5038		
Seq. No.	20829	Seq. ID	OJ991007_16.0110.C21
Gene No.	43446	Strand	+
Start	753	End	1818
Name	OJ991007_16.0110.C21.o1.np	Method	AAT/NAP
Start	753	End	1818
GI	6907089	Score	1258
Exons	753..1526, 1787..1818		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		
Seq. No.	20830	Seq. ID	OJ991007_16.0110.C22
Gene No.	43447	Strand	+
Start	1	End	122
Name	OJ991007_16.0110.C22.o1.np	Method	AAT/NAP
Start	1	End	122
GI	5042448	Score	152
Exons	1..122		
GI Descrip.	(AC007789) putative ORF0 protein of RIRE8B gypsy-type retrotransposon [Oryza sativa]		
Seq. No.	20830	Seq. ID	OJ991007_16.0110.C22

Gene No.	43448	Strand	+
Start	375	End	4938
Name	OJ991007_16.0110.C22.o2.np	Method	AAT/NAP
Start	375	End	4938
GI	4680179	Score	7650
Exons	375..4938		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		
Seq. No.	20830	Seq. ID	OJ991007_16.0110.C22
Gene No.	43449	Strand	+
Start	7800	End	8010
Name	OJ991007_16.0110.C22.o1.gp	Method	AAT/GAP
Start	7800	End	8010
GI	1631463	Score	306
Exons	7800..8010		
GI Descrip.	4680178/gb AF111709.1 AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes		
Seq. No.	20830	Seq. ID	OJ991007_16.0110.C22
Gene No.	43450	Strand	+
Start	8642	End	9493
Name	OJ991007_16.0110.C22.o4.np	Method	AAT/NAP
Start	8642	End	9493
GI	5042448	Score	1259
Exons	8642..9493		
GI Descrip.	(AC007789) putative ORF0 protein of RIRE8B gypsy-type retrotransposon [Oryza sativa]		
Seq. No.	20830	Seq. ID	OJ991007_16.0110.C22
Gene No.	43451	Strand	+
Start	9745	End	9899
Name	OJ991007_16.0110.C22.o5.np	Method	AAT/NAP
Start	9745	End	9899
GI	5042447	Score	247
Exons	9745..9899		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		
Seq. No.	20830	Seq. ID	OJ991007_16.0110.C22
Gene No.	43452	Strand	-
Start	5244	End	9686
Name	OJ991007_16.0110.C22.o7.tw	Method	TBLASTX:Wheat
Start	641	End	1001
GI	none	Score	303
Exons	641..742, 642..1001, 672..1001		
Seq. No.	20830	Seq. ID	OJ991007_16.0110.C22
Gene No.	43452	Strand	-
Start	5244	End	9686
Name	OJ991007_16.0110.C22.o8.tw	Method	TBLASTX:Wheat
Start	1521	End	1937
GI	none	Score	145
Exons	1521..1730, 1574..1669, 1752..1937, 1781..1936		
Seq. No.	20830	Seq. ID	OJ991007_16.0110.C22
Gene No.	43452	Strand	-
Start	5244	End	9686

Name	OJ991007_16.0110.C22.o3.tw	Method	TBLASTX:Wheat
Start	2100	End	2582
GI	none	Score	552
Exons	2100..2582, 2204..2539, 2250..2549		
Seq. No.	20830	Seq. ID	OJ991007_16.0110.C22
Gene No.	43452	Strand	-
Start	5244	End	9686
Name	OJ991007_16.0110.C22.o5.tm	Method	TBLASTX:Maize
Start	2112	End	2401
GI	none	Score	314
Exons	2112..2399, 2210..2401		
Seq. No.	20830	Seq. ID	OJ991007_16.0110.C22
Gene No.	43452	Strand	-
Start	5244	End	9686
Name	OJ991007_16.0110.C22.o4.ts	Method	TBLASTX:Soybean
Start	2136	End	2450
GI	none	Score	183
Exons	2136..2450		
Seq. No.	20830	Seq. ID	OJ991007_16.0110.C22
Gene No.	43452	Strand	-
Start	5244	End	9686
Name	OJ991007_16.0110.C22.o3.tm	Method	TBLASTX:Maize
Start	2469	End	2969
GI	none	Score	161
Exons	2469..2648, 2634..2969, 2720..2851, 2876..2926		
Seq. No.	20830	Seq. ID	OJ991007_16.0110.C22
Gene No.	43452	Strand	-
Start	5244	End	9686
Name	OJ991007_16.0110.C22.o1.ts	Method	TBLASTX:Soybean
Start	2523	End	2918
GI	none	Score	57
Exons	2523..2555, 2525..2554, 2559..2918, 2559..2639, 2663..2917		
Seq. No.	20830	Seq. ID	OJ991007_16.0110.C22
Gene No.	43452	Strand	-
Start	5244	End	9686
Name	OJ991007_16.0110.C22.o5.tw	Method	TBLASTX:Wheat
Start	2631	End	2933
GI	none	Score	402
Exons	2631..2933, 2632..2733, 2663..2932		
Seq. No.	20830	Seq. ID	OJ991007_16.0110.C22
Gene No.	43452	Strand	-
Start	5244	End	9686
Name	OJ991007_16.0110.C22.o2.tw	Method	TBLASTX:Wheat
Start	2934	End	3443
GI	none	Score	636
Exons	2934..3443, 2966..3355, 3012..3359		
Seq. No.	20830	Seq. ID	OJ991007_16.0110.C22
Gene No.	43452	Strand	-
Start	5244	End	9686
Name	OJ991007_16.0110.C22.o3.ts	Method	TBLASTX:Soybean

Start 2940  
GI none  
Exons 2940..3185

End 3185  
Score 202

Seq. No. 20830 Seq. ID OJ991007\_16.0110.C22  
Gene No. 43452 Strand -  
Start 5244 End 9686  
Name OJ991007\_16.0110.C22.o2.tm Method TBLASTX:Maize  
Start 3006 End 3371  
GI none Score 495  
Exons 3006..3359, 3008..3274, 3058..3369, 3060..3371

Seq. No. 20830 Seq. ID OJ991007\_16.0110.C22  
Gene No. 43452 Strand -  
Start 5244 End 9686  
Name OJ991007\_16.0110.C22.o4.tw Method TBLASTX:Wheat  
Start 3447 End 3927  
GI none Score 145  
Exons 3447..3671, 3518..3589, 3634..3927, 3640..3894, 3672..3926

Seq. No. 20830 Seq. ID OJ991007\_16.0110.C22  
Gene No. 43452 Strand -  
Start 5244 End 9686  
Name OJ991007\_16.0110.C22.o1.tc Method TBLASTX:Cress  
Start 3631 End 3951  
GI none Score 85  
Exons 3631..3807, 3808..3951, 3810..3950

Seq. No. 20830 Seq. ID OJ991007\_16.0110.C22  
Gene No. 43452 Strand -  
Start 5244 End 9686  
Name OJ991007\_16.0110.C22.o2.ts Method TBLASTX:Soybean  
Start 3715 End 3975  
GI none Score 294  
Exons 3715..3975, 3720..3974

Seq. No. 20830 Seq. ID OJ991007\_16.0110.C22  
Gene No. 43452 Strand -  
Start 5244 End 9686  
Name OJ991007\_16.0110.C22.o4.tm Method TBLASTX:Maize  
Start 3774 End 4065  
GI none Score 380  
Exons 3774..4061, 3775..4065

Seq. No. 20830 Seq. ID OJ991007\_16.0110.C22  
Gene No. 43452 Strand -  
Start 5244 End 9686  
Name OJ991007\_16.0110.C22.o1.tw Method TBLASTX:Wheat  
Start 3934 End 4560  
GI none Score 722  
Exons 3934..4560, 3936..4559

Seq. No. 20830 Seq. ID OJ991007\_16.0110.C22  
Gene No. 43452 Strand -  
Start 5244 End 9686  
Name OJ991007\_16.0110.C22.o1.tm Method TBLASTX:Maize  
Start 4114 End 4713

GI	none	Score	221
Exons	4114..4275, 4122..4268, 4273..4713, 4275..4700		
Seq. No.	20830	Seq. ID	OJ991007_16.0110.C22
Gene No.	43452	Strand	-
Start	5244	End	9686
Name	OJ991007_16.0110.C22.o6.tw	Method	TBLASTX:Wheat
Start	4560	End	4893
GI	none	Score	374
Exons	4560..4769, 4561..4893		
Seq. No.	20830	Seq. ID	OJ991007_16.0110.C22
Gene No.	43452	Strand	-
Start	5244	End	9686
Name	OJ991007_16.0110.C22.o6.tm	Method	TBLASTX:Maize
Start	4717	End	4914
GI	none	Score	198
Exons	4717..4914		
Seq. No.	20830	Seq. ID	OJ991007_16.0110.C22
Gene No.	43452	Strand	-
Start	5244	End	9686
Name	OJ991007_16.0110.C22.o3.np	Method	AAT/NAP
Start	5244	End	9686
GI	5295955	Score	391
Exons	5244..5799, 5839..5918, 5997..6345, 6392..6456, 7148..7260, 7798..7864, 9005..9268, 9598..9686		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		
Seq. No.	20831	Seq. ID	OJ991007_16.0110.C23
Gene No.	43453	Strand	+
Start	1	End	3054
Name	OJ991007_16.0110.C23.o1.np	Method	AAT/NAP
Start	1	End	3054
GI	6907089	Score	2915
Exons	1..21, 596..1086, 1190..3054		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		
Seq. No.	20831	Seq. ID	OJ991007_16.0110.C23
Gene No.	43453	Strand	+
Start	1	End	3054
Name	OJ991007_16.0110.C23.o1.gp	Method	AAT/GAP
Start	318	End	526
GI	1631463	Score	305
Exons	318..526		
GI Descrip.	4680178/gb AF111709.1 AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes		
Seq. No.	20831	Seq. ID	OJ991007_16.0110.C23
Gene No.	43454	Strand	+
Start	10771	End	12499
Name	OJ991007_16.0110.C23.o3.np	Method	AAT/NAP
Start	10771	End	12499
GI	4680179	Score	2006
Exons	10771..12499		



GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. No.	20831	Seq. ID	OJ991007_16.0110.C23
Gene No.	43455	Strand	+
Start	12928	End	15569
Name	OJ991007_16.0110.C23.o4.gs	Method	GENSCAN
Start	12928	End	15269
GI	none	Score	.73
Exons	12928..13058, 13697..13928, 13978..14089, 15196..15269		

Seq. No.	20831	Seq. ID	OJ991007_16.0110.C23
Gene No.	43455	Strand	+
Start	12928	End	15569
Name	OJ991007_16.0110.C23.o2.gp	Method	AAT/GAP
Start	15062	End	15569
GI	38782_1.R1084	Score	819
Exons	15062..15569		
GI Descrip.	'6069643/dbj AP000616.1 AP000616 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	20831	Seq. ID	OJ991007_16.0110.C23
Gene No.	43456	Strand	+
Start	16733	End	20325
Name	OJ991007_16.0110.C23.o5.gs	Method	GENSCAN
Start	16733	End	20188
GI	none	Score	.5
Exons	16733..16962, 16967..17225, 17299..17455, 18386..18408, 19723..20188		

Seq. No.	20831	Seq. ID	OJ991007_16.0110.C23
Gene No.	43456	Strand	+
Start	16733	End	20325
Name	OJ991007_16.0110.C23.o5.np	Method	AAT/NAP
Start	19723	End	20325
GI	4512231	Score	1013
Exons	19723..20325		
GI Descrip.	(AB014741) ORF0 protein [Oryza sativa]		

Seq. No.	20831	Seq. ID	OJ991007_16.0110.C23
Gene No.	43457	Strand	-
Start	3680	End	9133
Name	OJ991007_16.0110.C23.o2.np	Method	AAT/NAP
Start	3680	End	9133
GI	6498441	Score	7066
Exons	3680..3961, 4055..5452, 5624..6347, 6521..6655, 6839..7211, 7275..7738, 8069..9133		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	20831	Seq. ID	OJ991007_16.0110.C23
Gene No.	43458	Strand	-
Start	12664	End	17426
Name	OJ991007_16.0110.C23.o9.tm	Method	TBLASTX:Maize
Start	3677	End	3820
GI	none	Score	126
Exons	3677..3820, 3681..3815		

Seq. No.	20831	Seq. ID	OJ991007_16.0110.C23
Gene No.	43458	Strand	-
Start	12664	End	17426
Name	OJ991007_16.0110.C23.o1.tw	Method	TBLASTX:Wheat
Start	4046	End	12122
GI	none	Score	654
Exons	4046..4162, 4217..4375, 11496..12122, 11552..12121		

Seq. No.	20831	Seq. ID	OJ991007_16.0110.C23
Gene No.	43458	Strand	-
Start	12664	End	17426
Name	OJ991007_16.0110.C23.o8.tw	Method	TBLASTX:Wheat
Start	4418	End	4807
GI	none	Score	94
Exons	4418..4780, 4418..4807, 4494..4784		

Seq. No.	20831	Seq. ID	OJ991007_16.0110.C23
Gene No.	43458	Strand	-
Start	12664	End	17426
Name	OJ991007_16.0110.C23.o3.tm	Method	TBLASTX:Maize
Start	4467	End	4810
GI	none	Score	200
Exons	4467..4601, 4487..4810, 4500..4781		

Seq. No.	20831	Seq. ID	OJ991007_16.0110.C23
Gene No.	43458	Strand	-
Start	12664	End	17426
Name	OJ991007_16.0110.C23.o11.tw	Method	TBLASTX:Wheat
Start	5003	End	5315
GI	none	Score	67
Exons	5003..5263, 5139..5315		

Seq. No.	20831	Seq. ID	OJ991007_16.0110.C23
Gene No.	43458	Strand	-
Start	12664	End	17426
Name	OJ991007_16.0110.C23.o3.ts	Method	TBLASTX:Soybean
Start	5063	End	5629
GI	5666795	Score	70
Exons	5063..5263, 5318..5455, 5531..5629		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	20831	Seq. ID	OJ991007_16.0110.C23
Gene No.	43458	Strand	-
Start	12664	End	17426
Name	OJ991007_16.0110.C23.o7.tw	Method	TBLASTX:Wheat
Start	5318	End	5752
GI	none	Score	88
Exons	5318..5467, 5319..5456, 5511..5687, 5528..5752		

Seq. No.	20831	Seq. ID	OJ991007_16.0110.C23
Gene No.	43458	Strand	-
Start	12664	End	17426
Name	OJ991007_16.0110.C23.o8.tm	Method	TBLASTX:Maize
Start	5669	End	10922
GI	none	Score	192
Exons	5669..5809, 10772..10885, 10773..10922		

Seq. No.	20831	Seq. ID	OJ991007_16.0110.C23
Gene No.	43458	Strand	-
Start	12664	End	17426
Name	OJ991007_16.0110.C23.o2.ts	Method	TBLASTX:Soybean
Start	6185	End	6555
GI	none	Score	83
Exons	6185..6415, 6412..6555, 6413..6538		

Seq. No.	20831	Seq. ID	OJ991007_16.0110.C23
Gene No.	43458	Strand	-
Start	12664	End	17426
Name	OJ991007_16.0110.C23.o4.tw	Method	TBLASTX:Wheat
Start	6215	End	6634
GI	none	Score	88
Exons	6215..6421, 6240..6395, 6403..6633, 6404..6634		

Seq. No.	20831	Seq. ID	OJ991007_16.0110.C23
Gene No.	43458	Strand	-
Start	12664	End	17426
Name	OJ991007_16.0110.C23.o5.tm	Method	TBLASTX:Maize
Start	6308	End	6691
GI	none	Score	196
Exons	6308..6418, 6406..6690, 6407..6691		

Seq. No.	20831	Seq. ID	OJ991007_16.0110.C23
Gene No.	43458	Strand	-
Start	12664	End	17426
Name	OJ991007_16.0110.C23.o4.tm	Method	TBLASTX:Maize
Start	6718	End	7073
GI	none	Score	128
Exons	6718..6951, 6718..6963, 6728..6964, 6969..7073		

Seq. No.	20831	Seq. ID	OJ991007_16.0110.C23
Gene No.	43458	Strand	-
Start	12664	End	17426
Name	OJ991007_16.0110.C23.o3.tw	Method	TBLASTX:Wheat
Start	6742	End	7204
GI	none	Score	214
Exons	6742..6969, 6746..6970, 6749..6967, 6967..7203, 6969..7202, 6971..7204		

Seq. No.	20831	Seq. ID	OJ991007_16.0110.C23
Gene No.	43458	Strand	-
Start	12664	End	17426
Name	OJ991007_16.0110.C23.o4.ts	Method	TBLASTX:Soybean
Start	6799	End	7163
GI	none	Score	105
Exons	6799..6933, 6969..7163		

Seq. No.	20831	Seq. ID	OJ991007_16.0110.C23
Gene No.	43458	Strand	-
Start	12664	End	17426
Name	OJ991007_16.0110.C23.o5.tw	Method	TBLASTX:Wheat
Start	7368	End	7854
GI	none	Score	175
Exons	7368..7853, 7399..7659, 7681..7854		

Seq. No.	20831	Seq. ID	OJ991007_16.0110.C23
Gene No.	43458	Strand	-
Start	12664	End	17426
Name	OJ991007_16.0110.C23.o9.tw	Method	TBLASTX:Wheat
Start	8592	End	8981
GI	none	Score	104
Exons	8592..8849, 8626..8865, 8832..8930, 8833..8913, 8937..8981		

Seq. No.	20831	Seq. ID	OJ991007_16.0110.C23
Gene No.	43458	Strand	-
Start	12664	End	17426
Name	OJ991007_16.0110.C23.o6.tm	Method	TBLASTX:Maize
Start	8694	End	8942
GI	none	Score	104
Exons	8694..8942, 8695..8940		

Seq. No.	20831	Seq. ID	OJ991007_16.0110.C23
Gene No.	43458	Strand	-
Start	12664	End	17426
Name	OJ991007_16.0110.C23.o10.tw	Method	TBLASTX:Wheat
Start	10772	End	10922
GI	none	Score	215
Exons	10772..10870, 10773..10922, 10773..10907		

Seq. No.	20831	Seq. ID	OJ991007_16.0110.C23
Gene No.	43458	Strand	-
Start	12664	End	17426
Name	OJ991007_16.0110.C23.o2.tw	Method	TBLASTX:Wheat
Start	10965	End	11489
GI	none	Score	565
Exons	10965..11489, 11150..11485		

Seq. No.	20831	Seq. ID	OJ991007_16.0110.C23
Gene No.	43458	Strand	-
Start	12664	End	17426
Name	OJ991007_16.0110.C23.o1.tc	Method	TBLASTX:Cress
Start	11196	End	11513
GI	none	Score	95
Exons	11196..11369, 11217..11369, 11370..11513, 11372..11497		

Seq. No.	20831	Seq. ID	OJ991007_16.0110.C23
Gene No.	43458	Strand	-
Start	12664	End	17426
Name	OJ991007_16.0110.C23.o1.ts	Method	TBLASTX:Soybean
Start	11297	End	11537
GI	none	Score	292
Exons	11297..11536, 11298..11537		

Seq. No.	20831	Seq. ID	OJ991007_16.0110.C23
Gene No.	43458	Strand	-
Start	12664	End	17426
Name	OJ991007_16.0110.C23.o2.tm	Method	TBLASTX:Maize
Start	11337	End	11627
GI	none	Score	377
Exons	11337..11627, 11348..11623		

Seq. No.	20831	Seq. ID	OJ991007_16.0110.C23
Gene No.	43458	Strand	-
Start	12664	End	17426
Name	OJ991007_16.0110.C23.o1.tm	Method	TBLASTX:Maize
Start	11675	End	12272
GI	none	Score	97
Exons	11675..11827, 11676..11828, 11679..11900, 11684..11830, 11833..11886, 11834..12262, 11835..12272		

Seq. No.	20831	Seq. ID	OJ991007_16.0110.C23
Gene No.	43458	Strand	-
Start	12664	End	17426
Name	OJ991007_16.0110.C23.o6.tw	Method	TBLASTX:Wheat
Start	12122	End	12455
GI	none	Score	361
Exons	12122..12403, 12123..12455, 12162..12434		

Seq. No.	20831	Seq. ID	OJ991007_16.0110.C23
Gene No.	43458	Strand	-
Start	12664	End	17426
Name	OJ991007_16.0110.C23.o7.tm	Method	TBLASTX:Maize
Start	12279	End	12440
GI	none	Score	192
Exons	12279..12437, 12282..12440		

Seq. No.	20831	Seq. ID	OJ991007_16.0110.C23
Gene No.	43458	Strand	-
Start	12664	End	17426
Name	OJ991007_16.0110.C23.o4.np	Method	AAT/NAP
Start	12664	End	17426
GI	6907086	Score	828
Exons	12664..13066, 13303..13530, 13594..14087, 16530..16617, 17224..17426		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	20832	Seq. ID	OJ991007_16.0110.C24
Gene No.	43459	Strand	-
Start	981	End	2594
Name	OJ991007_16.0110.C24.o1.gs	Method	GENSCAN
Start	981	End	2341
GI	none	Score	.72
Exons	981..1061, 1299..1509, 1664..1759, 1920..2022, 2108..2168, 2270..2341		

Seq. No.	20832	Seq. ID	OJ991007_16.0110.C24
Gene No.	43459	Strand	-
Start	981	End	2594
Name	OJ991007_16.0110.C24.o1.np	Method	AAT/NAP
Start	984	End	2594
GI	4895190	Score	505
Exons	984..1061, 1299..1355, 1404..1459, 1542..1588, 1664..1759, 1920..2020, 2109..2168, 2270..2341, 2430..2594		
GI Descrip.	(AC007661) unknown protein [Arabidopsis thaliana]		

Seq. No.	20832	Seq. ID	OJ991007_16.0110.C24
Gene No.	43459	Strand	-
Start	981	End	2594

Name	OJ991007_16.0110.C24.o2.tm	Method	TBLASTX:Maize
Start	1263	End	1761
GI	none	Score	68
Exons	1263..1397, 1291..1344, 1362..1460, 1397..1462, 1417..1470, 1489..1527, 1538..1588, 1543..1587, 1637..1744, 1654..1761, 1663..1761		

Seq. No.	20832	Seq. ID	OJ991007_16.0110.C24
Gene No.	43459	Strand	-
Start	981	End	2594
Name	OJ991007_16.0110.C24.o1.ts	Method	TBLASTX:Soybean
Start	1317	End	2510
GI	none	Score	46
Exons	1317..1376, 1371..1418, 1395..1460, 1546..1587, 1547..1588, 1661..1702, 1663..1761, 1905..2003, 1911..2003, 1919..2020, 2109..2171, 2270..2326, 2271..2357, 2424..2510, 2429..2482		

Seq. No.	20832	Seq. ID	OJ991007_16.0110.C24
Gene No.	43459	Strand	-
Start	981	End	2594
Name	OJ991007_16.0110.C24.o1.tm	Method	TBLASTX:Maize
Start	1920	End	2500
GI	none	Score	144
Exons	1920..2021, 1925..2020, 1930..2022, 2107..2175, 2109..2171, 2270..2326, 2271..2333, 2432..2500, 2433..2489, 2437..2499		

Seq. No.	20832	Seq. ID	OJ991007_16.0110.C24
Gene No.	43459	Strand	-
Start	981	End	2594
Name	OJ991007_16.0110.C24.o1.gp	Method	AAT/GAP
Start	1940	End	2511
GI	2312423	Score	483
Exons	1940..2022, 2108..2168, 2270..2341, 2430..2511		
GI Descrip.	4895190/gb AAD32777.1 AC007661_14 2.0e-58 (AC007661) unknown protein [Arabidopsis thaliana]		

Seq. No.	20833	Seq. ID	OJ991007_16.0110.C25
Gene No.	43460	Strand	-
Start	1	End	2485
Name	OJ991007_16.0110.C25.o1.np	Method	AAT/NAP
Start	1	End	2485
GI	4895190	Score	233
Exons	1..57, 433..505, 599..685, 2287..2376, 2453..2485		
GI Descrip.	(AC007661) unknown protein [Arabidopsis thaliana]		

Seq. No.	20833	Seq. ID	OJ991007_16.0110.C25
Gene No.	43460	Strand	-
Start	1	End	2485
Name	OJ991007_16.0110.C25.o1.gp	Method	AAT/GAP
Start	433	End	690
GI	2312423	Score	266
Exons	433..505, 599..690		
GI Descrip.	4895190/gb AAD32777.1 AC007661_14 2.0e-58 (AC007661) unknown protein [Arabidopsis thaliana]		

Seq. No.	20833	Seq. ID	OJ991007_16.0110.C25
Gene No.	43460	Strand	-

Start	1	End	2485
Name	OJ991007_16.0110.C25.o1.gs	Method	GENSCAN
Start	437	End	2485
GI	none	Score	.8
Exons	437..505, 599..685, 2287..2376, 2453..2485		

Seq. No.	20833	Seq. ID	OJ991007_16.0110.C25
Gene No.	43461	Strand	-
Start	2515	End	2824
Name	OJ991007_16.0110.C25.o1.tm	Method	TBLASTX:Maize
Start	418	End	2515
GI	none	Score	76
Exons	418..495, 437..505, 438..506, 597..689, 599..685, 600..686, 2287..2373, 2287..2430, 2300..2377, 2430..2492, 2431..2493, 2447..2515		

Seq. No.	20833	Seq. ID	OJ991007_16.0110.C25
Gene No.	43461	Strand	-
Start	2515	End	2824
Name	OJ991007_16.0110.C25.o2.gp	Method	AAT/GAP
Start	2515	End	2824
GI	428973	Score	572
Exons	2515..2824		

Seq. No.	20834	Seq. ID	OJ991007_16.0110.C26
Gene No.	43462	Strand	+
Start	2181	End	2309
Name	OJ991007_16.0110.C26.o1.gs	Method	GENSCAN
Start	2181	End	2309
GI	none	Score	.57
Exons	2181..2309		

Seq. No.	20834	Seq. ID	OJ991007_16.0110.C26
Gene No.	43463	Strand	+
Start	3611	End	4267
Name	OJ991007_16.0110.C26.o2.gs	Method	GENSCAN
Start	3611	End	4267
GI	none	Score	.85
Exons	3611..3760, 4130..4267		

Seq. No.	20834	Seq. ID	OJ991007_16.0110.C26
Gene No.	43464	Strand	-
Start	5823	End	12480
Name	OJ991007_16.0110.C26.o3.gs	Method	GENSCAN
Start	5823	End	11986
GI	none	Score	.9
Exons	5823..5890, 8492..8603, 9289..9462, 10557..10663, 10750..10857, 10955..11246, 11339..11689, 11783..11986		

Seq. No.	20834	Seq. ID	OJ991007_16.0110.C26
Gene No.	43464	Strand	-
Start	5823	End	12480
Name	OJ991007_16.0110.C26.o1.np	Method	AAT/NAP
Start	9801	End	12480
GI	2088640	Score	49
Exons	9801..9829, 11433..11689, 11791..11896, 12324..12480		
GI Descrip.	(AF002109) unknown protein [Arabidopsis thaliana]		

Seq. No.	20834	Seq. ID	OJ991007_16.0110.C26
Gene No.	43464	Strand	-
Start	5823	End	12480
Name	OJ991007_16.0110.C26.o2.tm	Method	TBLASTX:Maize
Start	10806	End	11132
GI	none	Score	64
Exons	10806..10859, 10808..10861, 10959..11090, 10960..11091, 11086..11106, 11094..11132		

Seq. No.	20834	Seq. ID	OJ991007_16.0110.C26
Gene No.	43464	Strand	-
Start	5823	End	12480
Name	OJ991007_16.0110.C26.o1.tm	Method	TBLASTX:Maize
Start	11432	End	11950
GI	none	Score	49
Exons	11432..11686, 11499..11540, 11607..11687, 11805..11822, 11816..11950		

Seq. No.	20834	Seq. ID	OJ991007_16.0110.C26
Gene No.	43464	Strand	-
Start	5823	End	12480
Name	OJ991007_16.0110.C26.o1.gp	Method	AAT/GAP
Start	11762	End	12030
GI	uC-osflM202080h07b1	Score	483
Exons	11762..12030		
GI Descrip.	'4895190/gb AAD32777.1 AC007661_14 2.0e-58 (AC007661) unknown protein [Arabidopsis thaliana]'		

Seq. No.	20835	Seq. ID	OJ991007_16.0110.C27
Gene No.	43465	Strand	+
Start	37	End	617
Name	OJ991007_16.0110.C27.o1.gs	Method	GENSCAN
Start	37	End	617
GI	none	Score	.67
Exons	37..366, 495..617		

Seq. No.	20835	Seq. ID	OJ991007_16.0110.C27
Gene No.	43466	Strand	+
Start	2111	End	5630
Name	OJ991007_16.0110.C27.o2.gs	Method	GENSCAN
Start	2111	End	5630
GI	none	Score	.79
Exons	2111..2159, 3000..3149, 3206..3336, 3406..3441, 4377..5141, 5217..5381, 5535..5630		

Seq. No.	20836	Seq. ID	OJ991027_17.0118.C1
Gene No.	43467	Strand	-
Start	1	End	2036
Name	OJ991027_17.0118.C1.o1.gp	Method	AAT/GAP
Start	1	End	1758
GI	48727_1.R1084	Score	1012
Exons	1..78, 164..326, 946..995, 1208..1321, 1608..1758		
GI Descrip.	'5923675/gb AAD56326.1 AC009326_13 3.0e-63 (AC009326) putative mRNA capping enzyme, RNA guanylyltransferase [Arabidopsis thaliana]'		



Seq. No.	20836	Seq. ID	OJ991027_17.0118.C1
Gene No.	43467	Strand	-
Start	1	End	2036
Name	OJ991027_17.0118.C1.ol.np	Method	AAT/NAP
Start	1	End	1991
GI	5923675	Score	589
Exons	1..74, 148..326, 1188..1315, 1584..1814, 1890..1991		
GI Descrip.	(AC009326) putative mRNA capping enzyme, RNA guanylyltransferase [Arabidopsis thaliana]		

Seq. No.	20836	Seq. ID	OJ991027_17.0118.C1
Gene No.	43467	Strand	-
Start	1	End	2036
Name	OJ991027_17.0118.C1.ol.tw	Method	TBLASTX:Wheat
Start	1	End	338
GI	none	Score	85
Exons	1..60, 1..78, 164..337, 165..329, 167..334, 174..338		

Seq. No.	20836	Seq. ID	OJ991027_17.0118.C1
Gene No.	43467	Strand	-
Start	1	End	2036
Name	OJ991027_17.0118.C1.ol.ts	Method	TBLASTX:Soybean
Start	4	End	1802
GI	none	Score	44
Exons	4..72, 19..54, 164..337, 165..329, 183..344, 184..330, 185..337, 945..992, 946..993, 1214..1336, 1222..1293, 1632..1802, 1675..1785		

Seq. No.	20836	Seq. ID	OJ991027_17.0118.C1
Gene No.	43467	Strand	-
Start	1	End	2036
Name	OJ991027_17.0118.C1.ol.gs	Method	GENSCAN
Start	164	End	2027
GI	none	Score	.8
Exons	164..326, 946..995, 1208..1321, 1608..1814, 1890..2027		

Seq. No.	20836	Seq. ID	OJ991027_17.0118.C1
Gene No.	43467	Strand	-
Start	1	End	2036
Name	OJ991027_17.0118.C1.ol.tm	Method	TBLASTX:Maize
Start	169	End	2036
GI	none	Score	230
Exons	169..327, 170..337, 171..329, 175..330, 946..996, 948..995, 1171..1326, 1172..1324, 1612..1716, 1614..1718, 1689..1718, 1711..1815, 1713..1817, 1713..1814, 1715..1831, 1869..2036, 1890..1988, 1891..2025		

Seq. No.	20836	Seq. ID	OJ991027_17.0118.C1
Gene No.	43467	Strand	-
Start	1	End	2036
Name	OJ991027_17.0118.C1.ol.tc	Method	TBLASTX:Cress
Start	272	End	1790
GI	none	Score	78
Exons	272..337, 273..329, 945..992, 946..993, 1214..1312, 1585..1788, 1611..1790		

Seq. No.	20837	Seq. ID	OJ991027_17.0118.C2
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Gene No.	43468	Strand	-
Start	423	End	1906
Name	OJ991027_17.0118.C2.ol.gs	Method	GENSCAN
Start	423	End	1894
GI	none	Score	.87
Exons	423..557, 632..715, 999..1150, 1266..1401, 1778..1894		
Seq. No.	20837	Seq. ID	OJ991027_17.0118.C2
Gene No.	43468	Strand	-
Start	423	End	1906
Name	OJ991027_17.0118.C2.ol.np	Method	AAT/NAP
Start	443	End	1906
GI	5923675	Score	347
Exons	443..557, 632..715, 999..1150, 1275..1401, 1778..1906		
GI Descrip.	(AC009326) putative mRNA capping enzyme, RNA guanylyltransferase [Arabidopsis thaliana]		
Seq. No.	20837	Seq. ID	OJ991027_17.0118.C2
Gene No.	43468	Strand	-
Start	423	End	1906
Name	OJ991027_17.0118.C2.ol.tm	Method	TBLASTX:Maize
Start	491	End	1903
GI	none	Score	93
Exons	491..559, 495..563, 495..557, 629..718, 637..714, 657..716, 990..1151, 993..1148, 995..1150, 1000..1152, 1046..1153, 1264..1287, 1293..1418, 1308..1418, 1778..1867, 1853..1903		
Seq. No.	20838	Seq. ID	OJ991027_17.0118.C3
Gene No.	43469	Strand	+
Start	54	End	1482
Name	OJ991027_17.0118.C3.ol.gs	Method	GENSCAN
Start	54	End	1482
GI	none	Score	.76
Exons	54..217, 1096..1196, 1434..1482		
Seq. No.	20839	Seq. ID	OJ991027_17.0118.C4
Gene No.	43470	Strand	+
Start	1	End	1395
Name	OJ991027_17.0118.C4.ol.np	Method	AAT/NAP
Start	1	End	1395
GI	2213591	Score	173
Exons	1..35, 241..657, 1316..1395		
GI Descrip.	(AC000348) T7N9.11 [Arabidopsis thaliana]		
Seq. No.	20839	Seq. ID	OJ991027_17.0118.C4
Gene No.	43470	Strand	+
Start	1	End	1395
Name	OJ991027_17.0118.C4.ol.tm	Method	TBLASTX:Maize
Start	1	End	1153
GI	none	Score	203
Exons	1..216, 6..215, 17..217, 218..241, 878..1009, 896..1009, 898..1014, 898..1014, 1003..1128, 1004..1129, 1015..1125, 1020..1127, 1130..1153		
Seq. No.	20839	Seq. ID	OJ991027_17.0118.C4
Gene No.	43470	Strand	+
Start	1	End	1395

Name	OJ991027_17.0118.C4.o2.np	Method	AAT/NAP
Start	157	End	1395
GI	2213591	Score	173
Exons	157..657, 1316..1395		
GI Descrip.	(AC000348) T7N9.11 [Arabidopsis thaliana]		

Seq. No.	20839	Seq. ID	OJ991027_17.0118.C4
Gene No.	43470	Strand	+
Start	1	End	1395
Name	OJ991027_17.0118.C4.o1.gs	Method	GENSCAN
Start	161	End	1231
GI	none	Score	.44
Exons	161..319, 335..631, 651..737, 1121..1231		

Seq. No.	20839	Seq. ID	OJ991027_17.0118.C4
Gene No.	43470	Strand	+
Start	1	End	1395
Name	OJ991027_17.0118.C4.o1.ts	Method	TBLASTX:Soybean
Start	229	End	1321
GI	none	Score	60
Exons	229..324, 245..409, 247..333, 464..523, 1141..1236, 1157..1321, 1159..1242		

Seq. No.	20839	Seq. ID	OJ991027_17.0118.C4
Gene No.	43470	Strand	+
Start	1	End	1395
Name	OJ991027_17.0118.C4.o1.tc	Method	TBLASTX:Cress
Start	245	End	1321
GI	none	Score	170
Exons	245..409, 247..333, 473..598, 478..597, 1157..1321, 1159..1242		

Seq. No.	20840	Seq. ID	OJ991027_17.0118.C5
Gene No.	43471	Strand	+
Start	807	End	3415
Name	OJ991027_17.0118.C5.o1.gs	Method	GENSCAN
Start	807	End	1836
GI	none	Score	.61
Exons	807..899, 1204..1404, 1420..1836		

Seq. No.	20840	Seq. ID	OJ991027_17.0118.C5
Gene No.	43471	Strand	+
Start	807	End	3415
Name	OJ991027_17.0118.C5.o1.np	Method	AAT/NAP
Start	1252	End	3415
GI	2213591	Score	252
Exons	1252..1683, 3366..3415		
GI Descrip.	(AC000348) T7N9.11 [Arabidopsis thaliana]		

Seq. No.	20840	Seq. ID	OJ991027_17.0118.C5
Gene No.	43472	Strand	-
Start	2011	End	5445
Name	OJ991027_17.0118.C5.o1.tm	Method	TBLASTX:Maize
Start	16	End	4837
GI	none	Score	100
Exons	16..123, 17..124, 20..124, 131..172, 136..210, 162..227, 175..222, 1999..2082, 2000..2092, 2012..2083, 2062..2193, 2075..2203, 2090..2254, 2194..2292, 2199..2297, 3207..3290,		

3211..3294, 3212..3304, 3298..3402, 3298..3405, 3299..3415,  
3303..3476, 3413..3499, 3417..3509, 3418..3498, 3989..4018,  
4011..4070, 4109..4189, 4190..4297, 4202..4294, 4767..4832,  
4772..4837, 4783..4836, 4784..4837

Seq. No.	20840	Seq. ID	OJ991027_17.0118.C5
Gene No.	43472	Strand	-
Start	2011	End	5445
Name	OJ991027_17.0118.C5.o2.ts	Method	TBLASTX:Soybean
Start	16	End	4294
GI	none	Score	38
Exons	16..123, 136..189, 162..227, 2050..2193, 2072..2110, 2163..2207, 2199..2297, 2212..2292, 3253..3405, 3418..3498, 3422..3487, 4115..4189, 4202..4294		

Seq. No.	20840	Seq. ID	OJ991027_17.0118.C5
Gene No.	43472	Strand	-
Start	2011	End	5445
Name	OJ991027_17.0118.C5.o1.tc	Method	TBLASTX:Cress
Start	1273	End	1683
GI	none	Score	218
Exons	1273..1494, 1320..1430, 1558..1683, 1563..1682		

Seq. No.	20840	Seq. ID	OJ991027_17.0118.C5
Gene No.	43472	Strand	-
Start	2011	End	5445
Name	OJ991027_17.0118.C5.o2.tm	Method	TBLASTX:Maize
Start	1273	End	1491
GI	none	Score	241
Exons	1273..1491, 1296..1424		

Seq. No.	20840	Seq. ID	OJ991027_17.0118.C5
Gene No.	43472	Strand	-
Start	2011	End	5445
Name	OJ991027_17.0118.C5.o1.ts	Method	TBLASTX:Soybean
Start	1282	End	1608
GI	none	Score	213
Exons	1282..1494, 1549..1608		

Seq. No.	20840	Seq. ID	OJ991027_17.0118.C5
Gene No.	43472	Strand	-
Start	2011	End	5445
Name	OJ991027_17.0118.C5.o2.np	Method	AAT/NAP
Start	2011	End	5445
GI	3776559	Score	135
Exons	2011..2157, 4136..4288, 5351..5445		
GI Descrip.	(AC005388) Strong similarity to gene F14J9.26 gi 3482933 cdc2 protein kinase homolog from A. thaliana BAC gb AC003970. ESTs gb Z35332 and gb F19907 come from this gene. [Arabidopsis thaliana]		

Seq. No.	20840	Seq. ID	OJ991027_17.0118.C5
Gene No.	43472	Strand	-
Start	2011	End	5445
Name	OJ991027_17.0118.C5.o3.gs	Method	GENSCAN
Start	4396	End	5360
GI	none	Score	.78

Exons 4396..4455, 5280..5360

Seq. No.	20841	Seq. ID	OJ991027_17.0118.C6
Gene No.	43473	Strand	+
Start	1	End	1505
Name	OJ991027_17.0118.C6.o1.np	Method	AAT/NAP
Start	1	End	1502
GI	4680179	Score	2246
Exons	1..1502		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	20841	Seq. ID	OJ991027_17.0118.C6
Gene No.	43473	Strand	+
Start	1	End	1505
Name	OJ991027_17.0118.C6.o1.gs	Method	GENSCAN
Start	108	End	1505
GI	none	Score	.92
Exons	108..527, 711..1505		

Seq. No.	20841	Seq. ID	OJ991027_17.0118.C6
Gene No.	43474	Strand	+
Start	3222	End	3656
Name	OJ991027_17.0118.C6.o1.gp	Method	AAT/GAP
Start	3222	End	3656
GI	2428185	Score	702
Exons	3222..3656		
GI Descrip.	5852170/emb AL117265.1 OST17804 1.0e-177 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	20841	Seq. ID	OJ991027_17.0118.C6
Gene No.	43475	Strand	+
Start	4973	End	5769
Name	OJ991027_17.0118.C6.o2.np	Method	AAT/NAP
Start	4973	End	5769
GI	4512231	Score	1263
Exons	4973..5769		
GI Descrip.	(AB014741) ORF0 protein [Oryza sativa]		

Seq. No.	20841	Seq. ID	OJ991027_17.0118.C6
Gene No.	43476	Strand	+
Start	5993	End	8305
Name	OJ991027_17.0118.C6.o3.np	Method	AAT/NAP
Start	5993	End	8305
GI	4680179	Score	2366
Exons	5993..7057, 7085..8305		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	20841	Seq. ID	OJ991027_17.0118.C6
Gene No.	43477	Strand	-
Start	2191	End	4199
Name	OJ991027_17.0118.C6.o2.tw	Method	TBLASTX:Wheat
Start	3	End	491
GI	none	Score	590
Exons	3..491, 140..487		

Seq. No.	20841	Seq. ID	OJ991027_17.0118.C6
Gene No.	43477	Strand	-

```
End      4199
Method   TBLASTX:Cress
End      515
Score    87
```

```
Seq. ID   OJ991027_17.0118.C6
Strand    -
End       4199
Method    TBLASTX:Soybean
End       539
Score     298
```

```
Seq. ID  OJ991027_17.0118.C6
Strand   -
End      4199
Method   TBLASTX:Maize
End      629
Score    402
```

```
Seq. ID      OJ991027_17.0118.C6
Strand       -
End          4199
Method       TBLASTX:Wheat
End          1124
Score        696
```

```
Seq. ID   OJ991027_17.0118.C6
Strand    -
End       4199
Method    TBLASTX:Maize
End       1262
Score     229
837..1262, 1052..1261
```

```
Seq. ID   OJ991027_17.0118.C6
Strand    -
End       4199
Method    TBLASTX:Wheat
End       1457
Score     307
```

```
Seq. ID   OJ991027_17.0118.C6
Strand    -
End       4199
Method    GENSCAN
End       4199
Score     .74
.4199
```

```
Seq. ID  OJ991027_17.0118.C6
Strand
End      6406
```

Name	OJ991027_17.0118.C6.o7.tw	Method	TBLASTX:Wheat
Start	6208	End	6406
GI	none	Score	200
Exons	6208..6405, 6218..6406, 6224..6406		

Seq. No.	20841	Seq. ID	OJ991027_17.0118.C6
Gene No.	43479	Strand	
Start	6455	End	6808
Name	OJ991027_17.0118.C6.o5.tw	Method	TBLASTX:Wheat
Start	6455	End	6808
GI	none	Score	300
Exons	6455..6652, 6458..6808		

Seq. No.	20841	Seq. ID	OJ991027_17.0118.C6
Gene No.	43479	Strand	
Start	6455	End	6808
Name	OJ991027_17.0118.C6.o4.tm	Method	TBLASTX:Maize
Start	6458	End	6763
GI	none	Score	230
Exons	6458..6763		

Seq. No.	20841	Seq. ID	OJ991027_17.0118.C6
Gene No.	43480	Strand	
Start	7142	End	7495
Name	OJ991027_17.0118.C6.o6.tw	Method	TBLASTX:Wheat
Start	7142	End	7495
GI	none	Score	244
Exons	7142..7495		

Seq. No.	20841	Seq. ID	OJ991027_17.0118.C6
Gene No.	43481	Strand	
Start	7624	End	8305
Name	OJ991027_17.0118.C6.o3.tw	Method	TBLASTX:Wheat
Start	7624	End	8107
GI	none	Score	529
Exons	7624..8064, 7625..8107, 7661..8104		

Seq. No.	20841	Seq. ID	OJ991027_17.0118.C6
Gene No.	43481	Strand	
Start	7624	End	8305
Name	OJ991027_17.0118.C6.o3.ts	Method	TBLASTX:Soybean
Start	7661	End	7975
GI	none	Score	192
Exons	7661..7975		

Seq. No.	20841	Seq. ID	OJ991027_17.0118.C6
Gene No.	43481	Strand	
Start	7624	End	8305
Name	OJ991027_17.0118.C6.o3.tm	Method	TBLASTX:Maize
Start	7690	End	8161
GI	none	Score	385
Exons	7690..8127, 7694..8161		

Seq. No.	20841	Seq. ID	OJ991027_17.0118.C6
Gene No.	43481	Strand	
Start	7624	End	8305
Name	OJ991027_17.0118.C6.o2.ts	Method	TBLASTX:Soybean

Start	8048	End	8305
GI	none	Score	57
Exons	8048..8080, 8048..8080, 8084..8305, 8087..8227, 8200..8304		
Seq. No.	20841	Seq. ID	OJ991027_17.0118.C6
Gene No.	43481	Strand	
Start	7624	End	8305
Name	OJ991027_17.0118.C6.o8.tw	Method	TBLASTX:Wheat
Start	8156	End	8305
GI	none	Score	196
Exons	8156..8305, 8197..8295		
Seq. No.	20842	Seq. ID	OJ991027_17.0118.C7
Gene No.	43482	Strand	+
Start	501	End	12625
Name	OJ991027_17.0118.C7.o1.gs	Method	GENSCAN
Start	501	End	7203
GI	none	Score	.61
Exons	501..1638, 2595..2835, 2896..2918, 3143..3166, 4707..4921, 5195..5392, 5432..5876, 6240..6270, 6542..6696, 6803..7203		
Seq. No.	20842	Seq. ID	OJ991027_17.0118.C7
Gene No.	43482	Strand	+
Start	501	End	12625
Name	OJ991027_17.0118.C7.o3.np	Method	AAT/NAP
Start	768	End	7182
GI	4544372	Score	146
Exons	768..796, 1534..1580, 6755..7182		
GI Descrip.	(AC006920) putative retroelement pol polyprotein [Arabidopsis thaliana]		
Seq. No.	20842	Seq. ID	OJ991027_17.0118.C7
Gene No.	43482	Strand	+
Start	501	End	12625
Name	OJ991027_17.0118.C7.o1.np	Method	AAT/NAP
Start	2605	End	12625
GI	5852175	Score	227
Exons	2605..2835, 3118..3166, 3737..3844, 6898..6999, 12587..12625		
GI Descrip.	(AL117265) zhb0005.1 [Oryza sativa]		
Seq. No.	20842	Seq. ID	OJ991027_17.0118.C7
Gene No.	43482	Strand	+
Start	501	End	12625
Name	OJ991027_17.0118.C7.o1.gp	Method	AAT/GAP
Start	2637	End	3370
GI	101153_1.R1084	Score	588
Exons	2637..2835, 3143..3370		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:tl7804'		
Seq. No.	20842	Seq. ID	OJ991027_17.0118.C7
Gene No.	43482	Strand	+
Start	501	End	12625
Name	OJ991027_17.0118.C7.o2.gp	Method	AAT/GAP
Start	3389	End	3818
GI	2428185	Score	813
Exons	3389..3818		



GI Descrip. 5852170/emb|AL117265.1|OST17804 1.0e-177 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804

Seq. No.	20842	Seq. ID	OJ991027_17.0118.C7
Gene No.	43483	Strand	-
Start	4341	End	4649
Name	OJ991027_17.0118.C7.o3.gp	Method	AAT/GAP
Start	4341	End	4649
GI	61605_3.R1084	Score	461
Exons	4341..4649		
GI Descrip.	'1402920/emb CAA66965  2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	20842	Seq. ID	OJ991027_17.0118.C7
Gene No.	43484	Strand	-
Start	7561	End	12625
Name	OJ991027_17.0118.C7.o1.tw	Method	TBLASTX:Wheat
Start	6766	End	7167
GI	none	Score	217
Exons	6766..7167, 6960..7133		

Seq. No.	20842	Seq. ID	OJ991027_17.0118.C7
Gene No.	43484	Strand	-
Start	7561	End	12625
Name	OJ991027_17.0118.C7.o1.ts	Method	TBLASTX:Soybean
Start	6943	End	7188
GI	none	Score	235
Exons	6943..7188, 6954..7109, 7152..7184		

Seq. No.	20842	Seq. ID	OJ991027_17.0118.C7
Gene No.	43484	Strand	-
Start	7561	End	12625
Name	OJ991027_17.0118.C7.o2.gs	Method	GENSCAN
Start	7561	End	12535
GI	none	Score	.77
Exons	7561..8199, 8672..9013, 9089..9114, 9226..9399, 9920..9972, 10849..10922, 12410..12535		

Seq. No.	20842	Seq. ID	OJ991027_17.0118.C7
Gene No.	43484	Strand	-
Start	7561	End	12625
Name	OJ991027_17.0118.C7.o4.np	Method	AAT/NAP
Start	11248	End	12625
GI	6907086	Score	588
Exons	11248..11417, 11498..11670, 11804..11847, 12070..12304, 12365..12625		

GI Descrip. (AP001129) hypothetical protein [Oryza sativa]

Seq. No.	20843	Seq. ID	OJ991027_17.0118.C8
Gene No.	43485	Strand	+
Start	20	End	2225
Name	OJ991027_17.0118.C8.o1.gs	Method	GENSCAN
Start	20	End	1919
GI	none	Score	1
Exons	20..170, 1846..1919		

Seq. No.	20843	Seq. ID	OJ991027_17.0118.C8
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Gene No.	43485	Strand	+
Start	20	End	2225
Name	OJ991027_17.0118.C8.o1.gp	Method	AAT/GAP
Start	1711	End	2225
GI	38782_1.R1084	Score	810
Exons	1711..2225		
GI Descrip.	'6069643/dbj AP000616.1 AP000616 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	20843	Seq. ID	OJ991027_17.0118.C8
Gene No.	43486	Strand	+
Start	3361	End	6181
Name	OJ991027_17.0118.C8.o2.gs	Method	GENSCAN
Start	3361	End	5369
GI	none	Score	.52
Exons	3361..3474, 4113..4155, 4490..4748, 5069..5369		

Seq. No.	20843	Seq. ID	OJ991027_17.0118.C8
Gene No.	43486	Strand	+
Start	3361	End	6181
Name	OJ991027_17.0118.C8.o3.np	Method	AAT/NAP
Start	3864	End	4138
GI	3249064	Score	78
Exons	3864..4138		
GI Descrip.	(AC004473) Strong similarity to trehalose-6-phosphate synthase homolog gb 2245136 from A. thaliana chromosome 4 contig gb Z97344. [Arabidopsis thaliana]		

Seq. No.	20843	Seq. ID	OJ991027_17.0118.C8
Gene No.	43486	Strand	+
Start	3361	End	6181
Name	OJ991027_17.0118.C8.o4.np	Method	AAT/NAP
Start	5265	End	6181
GI	2144183	Score	79
Exons	5265..5379, 6113..6181		
GI Descrip.	DNA-directed RNA polymerase (EC 2.7.7.6) chain III - Ecotype Columbia gi 1184686 (U35049) RNA polymerase I(A) and III(C) 14 kDa subunit [Arabidopsis thaliana] gi 1184688 (U35050) Arabidopsis thaliana RNA polymerase I(A) and III(C) 14 kDa subunit [Arabidopsis thaliana] gi 3980382 gb AAC95185.1  (AC004561) DNA-directed RNA polymerase 14 kDa subunit (AtrPAC14) [Arabidopsis tha		

Seq. No.	20843	Seq. ID	OJ991027_17.0118.C8
Gene No.	43487	Strand	-
Start	1	End	1339
Name	OJ991027_17.0118.C8.o1.np	Method	AAT/NAP
Start	1	End	1339
GI	6907088	Score	904
Exons	1..292, 789..1026, 1202..1339		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	20843	Seq. ID	OJ991027_17.0118.C8
Gene No.	43488	Strand	-
Start	2798	End	5475
Name	OJ991027_17.0118.C8.o2.np	Method	AAT/NAP
Start	2798	End	5475

GI 3776559 Score 79  
 Exons 2798..3053, 5297..5475  
 GI Descrip. (AC005388). Strong similarity to gene F14J9.26 gi|3482933 cdc2 protein kinase homolog from A. thaliana BAC gb|AC003970. ESTs gb|Z35332 and gb|F19907 come from this gene. [Arabidopsis thaliana]

Seq. No.	20843	Seq. ID	OJ991027_17.0118.C8
Gene No.	43489	Strand	-
Start	5965	End	6032
Name	OJ991027_17.0118.C8.o3.gs	Method	GENSCAN
Start	5965	End	6032
GI	none	Score	.61
Exons	5965..6032		

Seq. No.	20844	Seq. ID	OJ991027_17.0118.C9
Gene No.	43490	Strand	-
Start	300	End	3876
Name	OJ991027_17.0118.C9.o1.np	Method	AAT/NAP
Start	300	End	3766
GI	4234852	Score	2131
Exons	300..3556, 3590..3766		
GI Descrip.	(AF082133) gag-pol polyprotein [Zea mays]		

Seq. No.	20844	Seq. ID	OJ991027_17.0118.C9
Gene No.	43490	Strand	-
Start	300	End	3876
Name	OJ991027_17.0118.C9.o2.tw	Method	TBLASTX:Wheat
Start	351	End	747
GI	none	Score	81
Exons	351..566, 574..747, 575..715		

Seq. No.	20844	Seq. ID	OJ991027_17.0118.C9
Gene No.	43490	Strand	-
Start	300	End	3876
Name	OJ991027_17.0118.C9.o2.tm	Method	TBLASTX:Maize
Start	835	End	1089
GI	none	Score	94
Exons	835..1089, 836..955		

Seq. No.	20844	Seq. ID	OJ991027_17.0118.C9
Gene No.	43490	Strand	-
Start	300	End	3876
Name	OJ991027_17.0118.C9.o1.tw	Method	TBLASTX:Wheat
Start	895	End	1679
GI	none	Score	57
Exons	895..1101, 899..1093, 1034..1270, 1080..1262, 1080..1298, 1305..1388, 1380..1475, 1394..1483, 1400..1483, 1479..1601, 1489..1602, 1598..1678, 1598..1678, 1599..1679		

Seq. No.	20844	Seq. ID	OJ991027_17.0118.C9
Gene No.	43490	Strand	-
Start	300	End	3876
Name	OJ991027_17.0118.C9.o1.ts	Method	TBLASTX:Soybean
Start	1452	End	1799
GI	none	Score	63
Exons	1452..1577, 1477..1602, 1482..1601, 1598..1660, 1691..1798,		

1707..1799

Seq. No.	20844	Seq. ID	OJ991027_17.0118.C9
Gene No.	43490	Strand	-
Start	300	End	3876
Name	OJ991027_17.0118.C9.o3.tm	Method	TBLASTX:Maize
Start	1500	End	1799
GI	none	Score	67
Exons	1500..1601, 1598..1798, 1605..1799		

Seq. No.	20844	Seq. ID	OJ991027_17.0118.C9
Gene No.	43490	Strand	-
Start	300	End	3876
Name	OJ991027_17.0118.C9.o1.gs	Method	GENSCAN
Start	1870	End	3760
GI	none	Score	.5
Exons	1870..2221, 3069..3760		

Seq. No.	20844	Seq. ID	OJ991027_17.0118.C9
Gene No.	43490	Strand	-
Start	300	End	3876
Name	OJ991027_17.0118.C9.o1.gp	Method	AAT/GAP
Start	2573	End	3133
GI	uC-osflcyp006a10b1	Score	777
Exons	2573..2811, 2919..3133		
GI Descrip.	'4234846 7.0e-13 (AF082130) gag-pol polyprotein [Zea mays]'		

Seq. No.	20844	Seq. ID	OJ991027_17.0118.C9
Gene No.	43490	Strand	-
Start	300	End	3876
Name	OJ991027_17.0118.C9.o1.tm	Method	TBLASTX:Maize
Start	2734	End	3673
GI	none	Score	66
Exons	2734..2814, 2753..2815, 2920..3012, 3071..3349, 3095..3673, 3105..3551		

Seq. No.	20844	Seq. ID	OJ991027_17.0118.C9
Gene No.	43490	Strand	-
Start	300	End	3876
Name	OJ991027_17.0118.C9.o2.gp	Method	AAT/GAP
Start	3365	End	3876
GI	uC-osflM202052c07b1	Score	991
Exons	3365..3876		
GI Descrip.	'4234848 1.0e-12 (AF082131) gag-pol polyprotein [Zea mays]'		

Seq. No.	20845	Seq. ID	OJ991027_17.0118.C10
Gene No.	43491	Strand	+
Start	1026	End	2924
Name	OJ991027_17.0118.C10.o1.gs	Method	GENSCAN
Start	1026	End	2924
GI	none	Score	.63
Exons	1026..1178, 1661..1799, 2800..2924		

Seq. No.	20845	Seq. ID	OJ991027_17.0118.C10
Gene No.	43492	Strand	-
Start	3004	End	8322
Name	OJ991027_17.0118.C10.o1.gp	Method	AAT/GAP

Start	3004	End	4610
GI	17054_1.R1084	Score	1520
Exons	3004..3589, 4315..4441, 4531..4610		
GI Descrip.	'4567310/gb AAD23721.1 AC005956_10 8.0e-12 (AC005956) unknown protein [Arabidopsis thaliana]'		

Seq. No.	20845	Seq. ID	OJ991027_17.0118.C10
Gene No.	43492	Strand	-
Start	3004	End	8322
Name	OJ991027_17.0118.C10.o2.tm	Method	TBLASTX:Maize
Start	3150	End	4645
GI	none	Score	112
Exons	3150..3236, 3151..3237, 3156..3245, 3158..3241, 3229..3276, 3237..3269, 3241..3276, 3315..3377, 3317..3352, 3418..3492, 3419..3466, 3538..3588, 3540..3587, 4298..4450, 4309..4455, 4317..4445, 4330..4446, 4462..4608, 4530..4631, 4532..4606, 4532..4645		

Seq. No.	20845	Seq. ID	OJ991027_17.0118.C10
Gene No.	43492	Strand	-
Start	3004	End	8322
Name	OJ991027_17.0118.C10.o1.np	Method	AAT/NAP
Start	3419	End	6576
GI	4567310	Score	94
Exons	3419..3589, 4315..4428, 4551..4606, 6520..6576		
GI Descrip.	(AC005956) unknown protein [Arabidopsis thaliana]		

Seq. No.	20845	Seq. ID	OJ991027_17.0118.C10
Gene No.	43492	Strand	-
Start	3004	End	8322
Name	OJ991027_17.0118.C10.o2.gs	Method	GENSCAN
Start	3441	End	8322
GI	none	Score	.67
Exons	3441..3589, 4315..4441, 4531..4606, 5141..5686, 5703..5845, 6248..6369, 6483..6560, 8247..8322		

Seq. No.	20845	Seq. ID	OJ991027_17.0118.C10
Gene No.	43493	Strand	-
Start	9566	End	10276
Name	OJ991027_17.0118.C10.o1.tm	Method	TBLASTX:Maize
Start	9566	End	10276
GI	none	Score	44
Exons	9566..9610, 9578..9757, 9579..9740, 9612..9836, 9630..9797, 9633..9788, 9633..9785, 9636..9791, 9670..9789, 9684..9782, 9738..9830, 9739..9837, 9812..9973, 9814..9972, 9833..9985, 9833..9985, 9835..9963, 9836..9970, 9836..9970, 9836..9883, 9845..10003, 9862..9996, 9868..9972, 9881..10003, 9912..9950, 9929..10153, 9995..10102, 10006..10107, 10011..10139, 10020..10160, 10026..10103, 10029..10121, 10139..10276, 10143..10271, 10166..10258		

Seq. No.	20846	Seq. ID	OJ991027_17.0118.C12
Gene No.	43494	Strand	-
Start	1473	End	1717
Name	OJ991027_17.0118.C12.o1.gs	Method	GENSCAN
Start	1473	End	1717
GI	none	Score	.6

Exons 1473..1543, 1672..1717

Seq. No.	20846	Seq. ID	OJ991027_17.0118.C12
Gene No.	43495	Strand	-
Start	3715	End	4000
Name	OJ991027_17.0118.C12.o1.gp	Method	AAT/GAP
Start	3715	End	4000
GI	2798151	Score	189

Exons 3715..3829, 3962..4000

GI Descrip. 5670155/gb|AF161269.1|AF161269 2.0e-35 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence

Seq. No.	20847	Seq. ID	OJ991027_17.0118.C13
Gene No.	43496	Strand	+
Start	1	End	1750
Name	OJ991027_17.0118.C13.o1.np	Method	AAT/NAP
Start	1	End	1675
GI	2565010	Score	150

Exons 1..36, 1119..1675

GI Descrip. (AC002983) putative microfibril-associated protein [Arabidopsis thaliana] gi|3377811 (AF076275) contains similarity to ATP synthase B/B' (Pfam: ATP-synt\_B.hmm, score: 11.71) [Arabidopsis thaliana]

Seq. No.	20847	Seq. ID	OJ991027_17.0118.C13
Gene No.	43496	Strand	+
Start	1	End	1750
Name	OJ991027_17.0118.C13.o1.gs	Method	GENSCAN
Start	154	End	1042
GI	none	Score	.72
Exons	154..307, 540..682, 865..917, 982..1042		

Seq. No.	20847	Seq. ID	OJ991027_17.0118.C13
Gene No.	43496	Strand	+
Start	1	End	1750
Name	OJ991027_17.0118.C13.o2.gs	Method	GENSCAN
Start	1481	End	1750
GI	none	Score	.91

Exons 1481..1750

Seq. No.	20848	Seq. ID	OJ991027_17.0118.C14
Gene No.	43497	Strand	+
Start	590	End	713
Name	OJ991027_17.0118.C14.o1.gs	Method	GENSCAN
Start	590	End	713
GI	none	Score	.49

Exons 590..713

Seq. No.	20849	Seq. ID	OJ991027_17.0118.C15
Gene No.	43498	Strand	-
Start	22	End	591
Name	OJ991027_17.0118.C15.o1.gs	Method	GENSCAN
Start	22	End	591
GI	none	Score	.66

Exons 22..191, 453..591

Seq. No.	20850	Seq. ID	OJ991027_17.0118.C17
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Gene No.	43499	Strand	-
Start	1	End	396
Name	OJ991027_17.0118.C17.o1.np	Method	AAT/NAP
Start	1	End	396
GI	3249064	Score	90
Exons	1..26, 177..396		
GI Descrip.	(AC004473) Strong similarity to trehalose-6-phosphate synthase homolog gb 2245136 from A. thaliana chromosome 4 contig gb Z97344. [Arabidopsis thaliana]		

Seq. No.	20850	Seq. ID	OJ991027_17.0118.C17
Gene No.	43499	Strand	-
Start	1	End	396
Name	OJ991027_17.0118.C17.o1.gs	Method	GENSCAN
Start	96	End	323
GI	none	Score	.89
Exons	96..323		

Seq. No.	20851	Seq. ID	OJ991027_17.0118.C18
Gene No.	43500	Strand	-
Start	1	End	6226
Name	OJ991027_17.0118.C18.o1.np	Method	AAT/NAP
Start	1	End	857
GI	3249064	Score	92
Exons	1..282, 757..857		
GI Descrip.	(AC004473) Strong similarity to trehalose-6-phosphate synthase homolog gb 2245136 from A. thaliana chromosome 4 contig gb Z97344. [Arabidopsis thaliana]		

Seq. No.	20851	Seq. ID	OJ991027_17.0118.C18
Gene No.	43500	Strand	-
Start	1	End	6226
Name	OJ991027_17.0118.C18.o1.gs	Method	GENSCAN
Start	106	End	3684
GI	none	Score	.65
Exons	106..180, 946..1001, 1049..1146, 1638..1815, 2622..2681, 2902..2972, 3328..3395, 3550..3684		

Seq. No.	20851	Seq. ID	OJ991027_17.0118.C18
Gene No.	43500	Strand	-
Start	1	End	6226
Name	OJ991027_17.0118.C18.o2.np	Method	AAT/NAP
Start	880	End	6226
GI	4584539	Score	117
Exons	880..918, 1761..1884, 3733..4303, 6206..6226		
GI Descrip.	(AL049608) extensin-like protein [Arabidopsis thaliana]		

Seq. No.	20852	Seq. ID	OJ991027_17.0118.C19
Gene No.	43501	Strand	-
Start	396	End	1812
Name	OJ991027_17.0118.C19.o1.tm	Method	TBLASTX:Maize
Start	1	End	717
GI	none	Score	61
Exons	1..54, 2..52, 357..539, 394..537, 395..541, 395..538, 617..709, 625..717		

Seq. No.	20852	Seq. ID	OJ991027_17.0118.C19
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Gene No.	43501	Strand	-
Start	396	End	1812
Name	OJ991027_17.0118.C19.o1.gs	Method	GENSCAN
Start	396	End	1812
GI	none	Score	.8
Exons	396..537, 1519..1593, 1732..1812		

Seq. No.	20853	Seq. ID	OJ991027_17.0118.C20
Gene No.	43502	Strand	+
Start	202	End	652
Name	OJ991027_17.0118.C20.o1.gs	Method	GENSCAN
Start	202	End	652
GI	none	Score	.78
Exons	202..304, 480..652		

Seq. No.	20853	Seq. ID	OJ991027_17.0118.C20
Gene No.	43503	Strand	+
Start	13362	End	16818
Name	OJ991027_17.0118.C20.o3.np	Method	AAT/NAP
Start	13362	End	16818
GI	1814196	Score	33
Exons	13362..13381, 15590..15778, 16783..16818		
GI Descrip.	(U39847) AO13 ankyrin [Caenorhabditis elegans]		

Seq. No.	20853	Seq. ID	OJ991027_17.0118.C20
Gene No.	43503	Strand	+
Start	13362	End	16818
Name	OJ991027_17.0118.C20.o2.np	Method	AAT/NAP
Start	14026	End	16387
GI	5922634	Score	89
Exons	14026..14133, 16331..16387		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016867 dbj BAA85210.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	20853	Seq. ID	OJ991027_17.0118.C20
Gene No.	43503	Strand	+
Start	13362	End	16818
Name	OJ991027_17.0118.C20.o4.gs	Method	GENSCAN
Start	14244	End	16602
GI	none	Score	.82
Exons	14244..14423, 14466..14615, 15392..15874, 16207..16602		

Seq. No.	20853	Seq. ID	OJ991027_17.0118.C20
Gene No.	43504	Strand	-
Start	2157	End	9429
Name	OJ991027_17.0118.C20.o2.gs	Method	GENSCAN
Start	2157	End	9429
GI	none	Score	.78
Exons	2157..2225, 3230..3370, 3976..4175, 4267..4386, 4663..5461, 5648..6015, 6095..6305, 6503..6638, 8957..9120, 9322..9429		

Seq. No.	20853	Seq. ID	OJ991027_17.0118.C20
Gene No.	43504	Strand	-
Start	2157	End	9429
Name	OJ991027_17.0118.C20.o1.np	Method	AAT/NAP
Start	3702	End	6305



GI 6815107 Score 1967  
 Exons 3702..3883, 3976..4169, 4249..4446, 4681..4894, 5012..6015, 6095..6305  
 GI Descrip. (AP001081) Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone F20D10;hypothetical protein (AL035538) [Oryza sativa]

Seq. No. 20853 Seq. ID OJ991027\_17.0118.C20  
 Gene No. 43505 Strand -  
 Start 11619 End 12634  
 Name OJ991027\_17.0118.C20.o4.tm Method TBLASTX:Maize  
 Start 4264 End 4495  
 GI none Score 185  
 Exons 4264..4494, 4268..4495, 4269..4493, 4276..4494

Seq. No. 20853 Seq. ID OJ991027\_17.0118.C20  
 Gene No. 43505 Strand -  
 Start 11619 End 12634  
 Name OJ991027\_17.0118.C20.o2.tm Method TBLASTX:Maize  
 Start 4503 End 4948  
 GI none Score 82  
 Exons 4503..4682, 4505..4681, 4694..4804, 4749..4799, 4814..4948, 4815..4919

Seq. No. 20853 Seq. ID OJ991027\_17.0118.C20  
 Gene No. 43505 Strand -  
 Start 11619 End 12634  
 Name OJ991027\_17.0118.C20.o1.tw Method TBLASTX:Wheat  
 Start 4928 End 5359  
 GI none Score 273  
 Exons 4928..5359

Seq. No. 20853 Seq. ID OJ991027\_17.0118.C20  
 Gene No. 43505 Strand -  
 Start 11619 End 12634  
 Name OJ991027\_17.0118.C20.o1.tm Method TBLASTX:Maize  
 Start 4949 End 5380  
 GI none Score 113  
 Exons 4949..5380, 4977..5372, 5066..5377

Seq. No. 20853 Seq. ID OJ991027\_17.0118.C20  
 Gene No. 43505 Strand -  
 Start 11619 End 12634  
 Name OJ991027\_17.0118.C20.o1.ts Method TBLASTX:Soybean  
 Start 4967 End 5533  
 GI none Score 127  
 Exons 4967..5533, 5330..5494

Seq. No. 20853 Seq. ID OJ991027\_17.0118.C20  
 Gene No. 43505 Strand -  
 Start 11619 End 12634  
 Name OJ991027\_17.0118.C20.o1.tc Method TBLASTX:Cress  
 Start 5279 End 5620  
 GI none Score 64  
 Exons 5279..5620, 5365..5559

Seq. No. 20853 Seq. ID OJ991027\_17.0118.C20  
 Gene No. 43505 Strand -

Start	11619	End	12634
Name	OJ991027_17.0118.C20.o5.tm	Method	TBLASTX:Maize
Start	5381	End	5650
GI	none	Score	103
Exons	5381..5638, 5387..5650		

Seq. No.	20853	Seq. ID	OJ991027_17.0118.C20
Gene No.	43505	Strand	-
Start	11619	End	12634
Name	OJ991027_17.0118.C20.o3.tm	Method	TBLASTX:Maize
Start	9649	End	10364
GI	none	Score	49
Exons	9649..9723, 9691..9723, 9746..9886, 9776..9871, 9779..9877, 9780..9878, 9792..9905, 9795..9902, 9912..10109, 9924..10103, 9936..10073, 9943..10077, 9946..10071, 9947..10075, 9954..10118, 9955..10104, 9964..10116, 9969..10121, 9969..10112, 9973..10119, 9977..10159, 10056..10148, 10056..10148, 10057..10149, 10109..10201, 10131..10202, 10132..10209, 10137..10328, 10140..10289, 10146..10307, 10149..10313, 10152..10307, 10183..10308, 10191..10340, 10197..10340, 10198..10341, 10228..10254, 10338..10364		

Seq. No.	20853	Seq. ID	OJ991027_17.0118.C20
Gene No.	43505	Strand	-
Start	11619	End	12634
Name	OJ991027_17.0118.C20.o3.gs	Method	GENSCAN
Start	11619	End	12634
GI	none	Score	.68
Exons	11619..11831, 11946..12421, 12460..12634		

Seq. No.	20854	Seq. ID	OJ991027_17.0118.C21
Gene No.	43506	Strand	+
Start	1765	End	2061
Name	OJ991027_17.0118.C21.o1.np	Method	AAT/NAP
Start	1765	End	2061
GI	81286	Score	83
Exons	1765..2061		
GI Descrip.	extensin - Volvox carteri (fragment) gi 21992 emb CAA46283  (X65165) extensin [Volvox carteri]		

Seq. No.	20855	Seq. ID	OJ991027_17.0118.C22
Gene No.	43507	Strand	-
Start	5145	End	5274
Name	OJ991027_17.0118.C22.o2.gs	Method	GENSCAN
Start	5145	End	5274
GI	none	Score	.54
Exons	5145..5274		

Seq. No.	20856	Seq. ID	OJ991027_17.0118.C23
Gene No.	43508	Strand	+
Start	1	End	3720
Name	OJ991027_17.0118.C23.o1.np	Method	AAT/NAP
Start	1	End	1622
GI	5902444	Score	274
Exons	1..87, 1156..1622		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	20856	Seq. ID	OJ991027_17.0118.C23
Gene No.	43508	Strand	+
Start	1	End	3720
Name	OJ991027_17.0118.C23.o1.gs	Method	GENSCAN
Start	66	End	3720
GI	none	Score	.53
Exons	66..229, 535..721, 745..909, 1156..1269, 1348..1488, 2351..2519, 2562..2612, 3572..3720		

Seq. No.	20856	Seq. ID	OJ991027_17.0118.C23
Gene No.	43509	Strand	-
Start	4249	End	4459
Name	OJ991027_17.0118.C23.o2.gs	Method	GENSCAN
Start	4249	End	4459
GI	none	Score	.53
Exons	4249..4260, 4308..4459		

Seq. No.	20857	Seq. ID	OJ991027_17.0118.C24
Gene No.	43510	Strand	+
Start	506	End	560
Name	OJ991027_17.0118.C24.o1.gs	Method	GENSCAN
Start	506	End	560
GI	none	Score	.43
Exons	506..560		

Seq. No.	20858	Seq. ID	OJ991027_11.0119.C1
Gene No.	43511	Strand	-
Start	155	End	253
Name	OJ991027_11.0119.C1.o1.gs	Method	GENSCAN
Start	155	End	253
GI	none	Score	.74
Exons	155..253		

Seq. No.	20859	Seq. ID	OJ991027_11.0119.C2
Gene No.	43512	Strand	-
Start	328	End	7303
Name	OJ991027_11.0119.C2.o1.gs	Method	GENSCAN
Start	328	End	7120
GI	none	Score	.55
Exons	328..396, 716..810, 1630..1713, 2126..2329, 2699..3169, 3467..4946, 5035..5222, 5390..5546, 5832..5883, 6067..6272, 6767..6869, 6983..7120		

Seq. No.	20859	Seq. ID	OJ991027_11.0119.C2
Gene No.	43512	Strand	-
Start	328	End	7303
Name	OJ991027_11.0119.C2.o1.np	Method	AAT/NAP
Start	3609	End	4505
GI	6649097	Score	971
Exons	3609..4505		
GI Descrip.	(AF146275) resistance gene analog PIC27 [Oryza sativa]		

Seq. No.	20859	Seq. ID	OJ991027_11.0119.C2
Gene No.	43512	Strand	-
Start	328	End	7303
Name	OJ991027_11.0119.C2.o2.tm	Method	TBLASTX:Maize
Start	3678	End	4052

GI	none	Score	246
Exons	3678..4052		
Seq. No.	20859	Seq. ID	OJ991027_11.0119.C2
Gene No.	43512	Strand	-
Start	328	End	7303
Name	OJ991027_11.0119.C2.o3.ts	Method	TBLASTX:Soybean
Start	3747	End	3971
GI	4397495	Score	199
Exons	3747..3971		
GI Descrip.	4234955 2.0e-22 (AF098971) NBS-LRR-like protein cd8 [Phaseolus vulgaris]		

Seq. No.	20859	Seq. ID	OJ991027_11.0119.C2
Gene No.	43512	Strand	-
Start	328	End	7303
Name	OJ991027_11.0119.C2.o1.tc	Method	TBLASTX:Cress
Start	3795	End	4547
GI	none	Score	68
Exons	3795..3881, 3924..4052, 4077..4133, 4251..4334, 4377..4547, 4468..4539		

Seq. No.	20859	Seq. ID	OJ991027_11.0119.C2
Gene No.	43512	Strand	-
Start	328	End	7303
Name	OJ991027_11.0119.C2.o1.ts	Method	TBLASTX:Soybean
Start	3972	End	4515
GI	none	Score	63
Exons	3972..4052, 4065..4208, 4221..4469, 4449..4514, 4459..4515		

Seq. No.	20859	Seq. ID	OJ991027_11.0119.C2
Gene No.	43512	Strand	-
Start	328	End	7303
Name	OJ991027_11.0119.C2.o3.tm	Method	TBLASTX:Maize
Start	4161	End	4526
GI	none	Score	133
Exons	4161..4340, 4377..4526		

Seq. No.	20859	Seq. ID	OJ991027_11.0119.C2
Gene No.	43512	Strand	-
Start	328	End	7303
Name	OJ991027_11.0119.C2.o1.gp	Method	AAT/GAP
Start	4783	End	5247
GI	701907	Score	466
Exons	4783..4925, 5044..5247		

Seq. No.	20859	Seq. ID	OJ991027_11.0119.C2
Gene No.	43512	Strand	-
Start	328	End	7303
Name	OJ991027_11.0119.C2.o2.gp	Method	AAT/GAP
Start	5903	End	7055
GI	1999_1.R1084	Score	999
Exons	5903..6272, 6767..6869, 6983..7055		
GI Descrip.	'133019/sp P11874 RL7_DICDI 1.0e-33 60S RIBOSOMAL PROTEIN L7 >gi_71122_pir_R5D07_ribosomal protein L7 - slime mold (Dictyostelium discoideum) >gi_7357_emb_CAA33035_(X14909) ribosomal protein L7 (AA 1 - 246) [Dictyostelium discoideum]'		

Seq. No.	20859	Seq. ID	OJ991027_11.0119.C2
Gene No.	43512	Strand	-
Start	328	End	7303
Name	OJ991027_11.0119.C2.o1.tm	Method	TBLASTX:Maize
Start	5908	End	7128
GI	none	Score	49
Exons	5908..5982, 5918..5995, 5978..6010, 5986..6006, 6006..6050, 6040..6273, 6051..6278, 6058..6273, 6751..6870, 6761..6874, 6765..6881, 6768..6869, 6962..7114, 6968..7114, 6982..7128, 6982..7128		

Seq. No.	20859	Seq. ID	OJ991027_11.0119.C2
Gene No.	43512	Strand	-
Start	328	End	7303
Name	OJ991027_11.0119.C2.o2.tc	Method	TBLASTX:Cress
Start	6055	End	6275
GI	none	Score	131
Exons	6055..6273, 6057..6275		

Seq. No.	20859	Seq. ID	OJ991027_11.0119.C2
Gene No.	43512	Strand	-
Start	328	End	7303
Name	OJ991027_11.0119.C2.o2.ts	Method	TBLASTX:Soybean
Start	6055	End	7129
GI	none	Score	132
Exons	6055..6270, 6057..6275, 6761..6874, 6819..6866, 6819..6881, 6962..7129, 6982..7110		

Seq. No.	20859	Seq. ID	OJ991027_11.0119.C2
Gene No.	43512	Strand	-
Start	328	End	7303
Name	OJ991027_11.0119.C2.o2.np	Method	AAT/NAP
Start	6060	End	7303
GI	445613	Score	380
Exons	6060..6272, 6767..6869, 6983..7120, 7259..7303		
GI Descrip.	ribosomal protein L7 [Solanum tuberosum]		

Seq. No.	20859	Seq. ID	OJ991027_11.0119.C2
Gene No.	43512	Strand	-
Start	328	End	7303
Name	OJ991027_11.0119.C2.o1.tw	Method	TBLASTX:Wheat
Start	6222	End	7167
GI	none	Score	83
Exons	6222..6278, 6751..6876, 6761..6874, 6765..6881, 6771..6881, 6962..7120, 6973..7167, 6982..7110		

Seq. No.	20859	Seq. ID	OJ991027_11.0119.C2
Gene No.	43512	Strand	-
Start	328	End	7303
Name	OJ991027_11.0119.C2.o3.tc	Method	TBLASTX:Cress
Start	6761	End	7129
GI	none	Score	112
Exons	6761..6874, 6962..7129, 6982..7110		

Seq. No.	20859	Seq. ID	OJ991027_11.0119.C2
Gene No.	43512	Strand	-

Start	328	End	7303
Name	OJ991027_11.0119.C2.o3.gp	Method	AAT/GAP
Start	6877	End	7303
GI	8707_1.R1084	Score	204
Exons	6877..6896, 6978..7120, 7259..7303		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-50 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	20860	Seq. ID	OJ991027_11.0119.C3
Gene No.	43513	Strand	+
Start	44	End	6192
Name	OJ991027_11.0119.C3.o1.gs	Method	GENSCAN
Start	44	End	6192
GI	none	Score	.71
Exons	44..408, 420..589, 616..703, 829..946, 1448..1583, 1708..1753, 1829..1936, 2129..2228, 2322..2467, 2562..2653, 2767..2861, 3185..3281, 3371..3514, 3735..3952, 4661..4787, 5727..5861, 6089..6192		

Seq. No.	20860	Seq. ID	OJ991027_11.0119.C3
Gene No.	43513	Strand	+
Start	44	End	6192
Name	OJ991027_11.0119.C3.o2.gp	Method	AAT/GAP
Start	636	End	1892
GI	none	Score	589
Exons	636..658, 827..946, 1448..1583, 1714..1753, 1829..1892		

Seq. No.	20860	Seq. ID	OJ991027_11.0119.C3
Gene No.	43513	Strand	+
Start	44	End	6192
Name	OJ991027_11.0119.C3.o2.np	Method	AAT/NAP
Start	1454	End	4158
GI	3212871	Score	1488
Exons	1454..1613, 1720..1753, 1829..1936, 2129..2228, 2322..2467, 2562..2653, 2767..2861, 3185..3281, 3371..3514, 3735..3952, 4051..4158		

GI Descrip.	(AC004005) putative methionine aminopeptidase [Arabidopsis thaliana]		
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Seq. No.	20860	Seq. ID	OJ991027_11.0119.C3
Gene No.	43513	Strand	+
Start	44	End	6192
Name	OJ991027_11.0119.C3.o3.np	Method	AAT/NAP
Start	5677	End	5881
GI	3122724	Score	210
Exons	5677..5881		
GI Descrip.	60S RIBOSOMAL PROTEIN L38 gi 2289009 gb AAB64338.1  (AC002335) 60S ribosomal protein L38 [Arabidopsis thaliana]		

Seq. No.	20860	Seq. ID	OJ991027_11.0119.C3
Gene No.	43514	Strand	-
Start	1	End	268
Name	OJ991027_11.0119.C3.o1.gp	Method	AAT/GAP
Start	1	End	268
GI	8707_1.R1084	Score	481
Exons	1..268		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-50 Oryza sativa		

indica(GLA4) genomic DNA, chromosome 4, BAC clone:tl7804'

Seq. No.	20860	Seq. ID	OJ991027_11.0119.C3
Gene No.	43514	Strand	-
Start	1	End	268
Name	OJ991027_11.0119.C3.o1.np	Method	AAT/NAP
Start	1	End	189
GI	6503287	Score	109
Exons	1..189		
GI Descrip.	(AC011713) Strong similarity to gi 445613 ribosomal protein L7 from Solanum tuberosum. [Arabidopsis thaliana]		

Seq. No.	20860	Seq. ID	OJ991027_11.0119.C3
Gene No.	43515	Strand	
Start	1826	End	4167
Name	OJ991027_11.0119.C3.o1.tc	Method	TBLASTX:Cress
Start	1826	End	2863
GI	none	Score	155
Exons	1826..1936, 1827..1937, 1829..1945, 2130..2231, 2136..2231, 2311..2382, 2321..2467, 2322..2468, 2416..2478, 2417..2479, 2562..2669, 2563..2670, 2569..2676, 2765..2863, 2766..2861		

Seq. No.	20860	Seq. ID	OJ991027_11.0119.C3
Gene No.	43515	Strand	
Start	1826	End	4167
Name	OJ991027_11.0119.C3.o1.ts	Method	TBLASTX:Soybean
Start	1826	End	2867
GI	none	Score	151
Exons	1826..1948, 1827..1937, 2130..2231, 2130..2231, 2306..2413, 2322..2390, 2390..2467, 2391..2468, 2562..2669, 2563..2670, 2563..2670, 2765..2863, 2766..2861, 2769..2867		

Seq. No.	20860	Seq. ID	OJ991027_11.0119.C3
Gene No.	43515	Strand	
Start	1826	End	4167
Name	OJ991027_11.0119.C3.o1.tm	Method	TBLASTX:Maize
Start	1829	End	4167
GI	none	Score	187
Exons	1829..1948, 1830..1937, 1831..1938, 2130..2231, 2135..2245, 2136..2231, 2321..2467, 2322..2468, 2562..2654, 2563..2670, 2563..2679, 2765..2863, 2766..2861, 2769..2867, 2770..2862, 2803..2868, 3049..3117, 3184..3279, 3185..3280, 3328..3510, 3369..3515, 3370..3516, 3374..3526, 3727..3948, 3729..3944, 3734..3952, 3734..3952, 4047..4166, 4048..4167, 4050..4163		

Seq. No.	20860	Seq. ID	OJ991027_11.0119.C3
Gene No.	43515	Strand	
Start	1826	End	4167
Name	OJ991027_11.0119.C3.o3.tc	Method	TBLASTX:Cress
Start	3250	End	3789
GI	none	Score	50
Exons	3250..3279, 3251..3280, 3369..3515, 3370..3516, 3727..3789, 3734..3787		

Seq. No.	20860	Seq. ID	OJ991027_11.0119.C3
Gene No.	43515	Strand	
Start	1826	End	4167

Name	OJ991027_11.0119.C3.o2.ts	Method	TBLASTX:Soybean
Start	3408	End	3892
GI	none	Score	101
Exons	3408..3509, 3412..3516, 3412..3504, 3414..3515, 3727..3828, 3734..3829, 3823..3891, 3827..3892		

Seq. No.	20860	Seq. ID	OJ991027_11.0119.C3
Gene No.	43515	Strand	
Start	1826	End	4167
Name	OJ991027_11.0119.C3.o2.tc	Method	TBLASTX:Cress
Start	3790	End	4161
GI	none	Score	204
Exons	3790..3966, 3794..3958, 3814..3966, 4036..4161, 4050..4160		

Seq. No.	20860	Seq. ID	OJ991027_11.0119.C3
Gene No.	43516	Strand	
Start	5679	End	6824
Name	OJ991027_11.0119.C3.o1.tw	Method	TBLASTX:Wheat
Start	5679	End	6823
GI	none	Score	67
Exons	5679..5717, 5680..5730, 5724..5822, 5725..5820, 5726..5857, 5727..5822, 5822..5866, 6704..6823, 6750..6803, 6751..6801		

Seq. No.	20860	Seq. ID	OJ991027_11.0119.C3
Gene No.	43516	Strand	
Start	5679	End	6824
Name	OJ991027_11.0119.C3.o4.tc	Method	TBLASTX:Cress
Start	5679	End	6803
GI	none	Score	67
Exons	5679..5726, 5680..5730, 5724..5822, 5727..5804, 5824..5880, 5825..5866, 6750..6803, 6751..6801		

Seq. No.	20860	Seq. ID	OJ991027_11.0119.C3
Gene No.	43516	Strand	
Start	5679	End	6824
Name	OJ991027_11.0119.C3.o2.tm	Method	TBLASTX:Maize
Start	5679	End	6824
GI	none	Score	67
Exons	5679..5726, 5680..5730, 5722..5820, 5724..5831, 5727..5822, 5815..5865, 5822..5866, 5823..5876, 6750..6824, 6751..6801		

Seq. No.	20860	Seq. ID	OJ991027_11.0119.C3
Gene No.	43516	Strand	
Start	5679	End	6824
Name	OJ991027_11.0119.C3.o3.ts	Method	TBLASTX:Soybean
Start	5679	End	6803
GI	none	Score	67
Exons	5679..5726, 5680..5730, 5722..5811, 5724..5822, 5727..5825, 5822..5866, 5824..5865, 6750..6803, 6751..6801		

Seq. No.	20861	Seq. ID	OJ991027_11.0119.C4
Gene No.	43517	Strand	+
Start	3926	End	12550
Name	OJ991027_11.0119.C4.o3.gs	Method	GENSCAN
Start	3926	End	12526
GI	none	Score	.5
Exons	3926..4049, 6201..6290, 6667..6842, 8104..9018, 9236..9508,		



9868..9959, 11638..12526

Seq. No.	20861	Seq. ID	OJ991027_11.0119.C4
Gene No.	43517	Strand	+
Start	3926	End	12550
Name	OJ991027_11.0119.C4.o1.np	Method	AAT/NAP
Start	8071	End	12550
GI	3063465	Score	1134
Exons	8071..9018, 9236..9508, 9868..9959, 11638..12326, 12390..12550		
GI Descrip.	(AC003981) F22O13.27 [Arabidopsis thaliana]		

Seq. No.	20861	Seq. ID	OJ991027_11.0119.C4
Gene No.	43518	Strand	+
Start	14630	End	17351
Name	OJ991027_11.0119.C4.o2.np	Method	AAT/NAP
Start	14630	End	17339
GI	6691716	Score	2373
Exons	14630..15547, 15617..15865, 15942..16121, 16199..16386, 16461..16562, 16712..16826, 16900..17339		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6691717 dbj BAA89397.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	20861	Seq. ID	OJ991027_11.0119.C4
Gene No.	43518	Strand	+
Start	14630	End	17351
Name	OJ991027_11.0119.C4.o4.gs	Method	GENSCAN
Start	14630	End	17351
GI	none	Score	.95
Exons	14630..15514, 15571..15664, 15780..16121, 16199..16386, 16461..16650, 16722..16826, 16900..17351		

Seq. No.	20861	Seq. ID	OJ991027_11.0119.C4
Gene No.	43519	Strand	+
Start	22792	End	23571
Name	OJ991027_11.0119.C4.o1.gp	Method	AAT/GAP
Start	22792	End	23571
GI	none	Score	1400
Exons	22792..23571		

Seq. No.	20861	Seq. ID	OJ991027_11.0119.C4
Gene No.	43520	Strand	+
Start	30518	End	30781
Name	OJ991027_11.0119.C4.o7.gs	Method	GENSCAN
Start	30518	End	30781
GI	none	Score	.62
Exons	30518..30563, 30605..30726, 30731..30781		

Seq. No.	20861	Seq. ID	OJ991027_11.0119.C4
Gene No.	43521	Strand	+
Start	31908	End	36548
Name	OJ991027_11.0119.C4.o8.gs	Method	GENSCAN
Start	31908	End	36548
GI	none	Score	.57
Exons	31908..32338, 32666..32782, 32895..33003, 33073..33261, 33347..33569, 33642..33760, 33841..34017, 34068..34129, 34234..34495, 34588..34695, 34760..34843, 34959..34981,		

35039..35421, 35485..35717, 36106..36329, 36512..36548

Seq. No. 20861 Seq. ID OJ991027\_11.0119.C4  
 Gene No. 43521 Strand +  
 Start 31908 End 36548  
 Name OJ991027\_11.0119.C4.o6.np Method AAT/NAP  
 Start 31969 End 35435  
 GI 5441880 Score 1015  
 Exons 31969..31994, 32680..32819, 32928..33261, 33841..34129,  
 34234..34495, 34568..34812, 35226..35435  
 GI Descrip. (AP000367) EST C28952(C62945) corresponds to a region of the  
 predicted gene.; Similar to maize transposon MuDR mudrA protein.  
 (AC003981) [Oryza sativa]

Seq. No. 20861 Seq. ID OJ991027\_11.0119.C4  
 Gene No. 43521 Strand +  
 Start 31908 End 36548  
 Name OJ991027\_11.0119.C4.o4.gp Method AAT/GAP  
 Start 32934 End 35166  
 GI LIB3433-020-P1-K1-A6 Score 698  
 Exons 32934..32977, 34789..35166  
 GI Descrip. '5670155/gb|AF161269.1|AF161269 2.0e-35 Oryza sativa subsp.  
 japonica BAC clone 34K24, complete sequence'

Seq. No. 20861 Seq. ID OJ991027\_11.0119.C4  
 Gene No. 43522 Strand -  
 Start 2 End 532  
 Name OJ991027\_11.0119.C4.o1.gs Method GENSCAN  
 Start 2 End 532  
 GI none Score .99  
 Exons 2..532

Seq. No. 20861 Seq. ID OJ991027\_11.0119.C4  
 Gene No. 43523 Strand -  
 Start 1168 End 2043  
 Name OJ991027\_11.0119.C4.o2.gs Method GENSCAN  
 Start 1168 End 2043  
 GI none Score .73  
 Exons 1168..1625, 1665..2043

Seq. No. 20861 Seq. ID OJ991027\_11.0119.C4  
 Gene No. 43524 Strand -  
 Start 17681 End 25228  
 Name OJ991027\_11.0119.C4.o5.gs Method GENSCAN  
 Start 17681 End 25192  
 GI none Score .49  
 Exons 17681..19681, 19799..20762, 20859..22258, 23345..23419,  
 24166..24214, 24339..24388, 24474..24557, 24779..25192

Seq. No. 20861 Seq. ID OJ991027\_11.0119.C4  
 Gene No. 43524 Strand -  
 Start 17681 End 25228  
 Name OJ991027\_11.0119.C4.o3.np Method AAT/NAP  
 Start 17717 End 22374  
 GI 5922631 Score 5692  
 Exons 17717..20244, 20851..21777, 21904..22055, 22098..22374  
 GI Descrip. (AP000492) ESTs C26347(C12145), AU078074(C12145) correspond to a

region of the predicted gene.; similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativa] gi|6016864|dbj|BAA85207.1| (AP000570) ESTs C26347(C12145), AU078074(C12145) correspond to a region of the predicted gene.; Similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativ

Seq. No.	20861	Seq. ID	OJ991027_11.0119.C4
Gene No.	43524	Strand	-
Start	17681	End	25228
Name	OJ991027_11.0119.C4.o4.np	Method	AAT/NAP
Start	23050	End	24913
GI	2289010	Score	528
Exons	23050..23166, 23345..23419, 24166..24214, 24339..24388, 24474..24557, 24779..24913		
GI Descrip.	(AC002335) putative FKBP type peptidyl-prolyl cis-trans isomerase [Arabidopsis thaliana]		
Seq. No.	20861	Seq. ID	OJ991027_11.0119.C4
Gene No.	43524	Strand	-
Start	17681	End	25228
Name	OJ991027_11.0119.C4.o2.gp	Method	AAT/GAP
Start	23806	End	24394
GI	4001_3.R1084	Score	848
Exons	23806..24214, 24339..24394		
GI Descrip.	'2289010 1.0e-10 (AC002335) FKBP type peptidyl-prolyl cis-trans isomerase isolog [Arabidopsis thaliana]'		
Seq. No.	20861	Seq. ID	OJ991027_11.0119.C4
Gene No.	43524	Strand	-
Start	17681	End	25228
Name	OJ991027_11.0119.C4.o3.gp	Method	AAT/GAP
Start	24480	End	25228
GI	25062_1.R1084	Score	997
Exons	24480..24557, 24779..25228		
GI Descrip.	'2289010 1.0e-17 (AC002335) FKBP type peptidyl-prolyl cis-trans isomerase isolog [Arabidopsis thaliana]'		
Seq. No.	20861	Seq. ID	OJ991027_11.0119.C4
Gene No.	43525	Strand	-
Start	27079	End	29724
Name	OJ991027_11.0119.C4.o5.np	Method	AAT/NAP
Start	27079	End	29724
GI	3033389	Score	1198
Exons	27079..27446, 27506..29724		
GI Descrip.	(AC004238) putative disease resistance protein [Arabidopsis thaliana]		
Seq. No.	20861	Seq. ID	OJ991027_11.0119.C4
Gene No.	43526	Strand	-
Start	37723	End	37902
Name	OJ991027_11.0119.C4.o6.tm	Method	TBLASTX:Maize
Start	8058	End	8250
GI	none	Score	139
Exons	8058..8237, 8058..8246, 8062..8250		
Seq. No.	20861	Seq. ID	OJ991027_11.0119.C4

Gene No. 43526  
 Start 37723  
 Name OJ991027\_11.0119.C4.o1.tc  
 Start 8067  
 GI none  
 Exons 8067..8438, 8071..8439

Strand -  
 End 37902  
 Method TBLASTX:Cress  
 End 8439  
 Score 538

Seq. No. 20861  
 Gene No. 43526  
 Start 37723  
 Name OJ991027\_11.0119.C4.o4.ts  
 Start 8070  
 GI none  
 Exons 8070..8186, 8071..8187, 8200..8331

Seq. ID OJ991027\_11.0119.C4  
 Strand -  
 End 37902  
 Method TBLASTX:Soybean  
 End 8331  
 Score 126

Seq. No. 20861  
 Gene No. 43526  
 Start 37723  
 Name OJ991027\_11.0119.C4.o2.tm  
 Start 8575  
 GI none  
 Exons 8575..8652, 8577..8621, 8634..8816, 8635..8817, 8806..8868, 8814..8867, 8847..9011, 8848..9018, 8848..9018

Seq. ID OJ991027\_11.0119.C4  
 Strand -  
 End 37902  
 Method TBLASTX:Maize  
 End 9018  
 Score 85

Seq. No. 20861  
 Gene No. 43526  
 Start 37723  
 Name OJ991027\_11.0119.C4.o8.tm  
 Start 9235  
 GI none  
 Exons 9235..9288, 9236..9340, 9296..9508, 9307..9510, 9382..9510, 9865..9954, 9867..9965, 11635..11703, 11642..11701

Seq. ID OJ991027\_11.0119.C4  
 Strand -  
 End 37902  
 Method TBLASTX:Maize  
 End 11703  
 Score 52

Seq. No. 20861  
 Gene No. 43526  
 Start 37723  
 Name OJ991027\_11.0119.C4.o8.tw  
 Start 14750  
 GI none  
 Exons 14750..15040

Seq. ID OJ991027\_11.0119.C4  
 Strand -  
 End 37902  
 Method TBLASTX:Wheat  
 End 15040  
 Score 214

Seq. No. 20861  
 Gene No. 43526  
 Start 37723  
 Name OJ991027\_11.0119.C4.o3.tw  
 Start 17693  
 GI none  
 Exons 17693..17824, 17816..18307, 18018..18146, 18128..18157, 18198..18287

Seq. ID OJ991027\_11.0119.C4  
 Strand -  
 End 37902  
 Method TBLASTX:Wheat  
 End 18307  
 Score 95

Seq. No. 20861  
 Gene No. 43526  
 Start 37723  
 Name OJ991027\_11.0119.C4.o7.tm  
 Start 17732  
 GI none  
 Exons 17732..17833, 17733..17834, 17813..17995, 17814..17939

Seq. ID OJ991027\_11.0119.C4  
 Strand -  
 End 37902  
 Method TBLASTX:Maize  
 End 17995  
 Score 102

Seq. No.	20861	Seq. ID	OJ991027_11.0119.C4
Gene No.	43526	Strand	-
Start	37723	End	37902
Name	OJ991027_11.0119.C4.o10.tm	Method	TBLASTX:Maize
Start	18077	End	18350
GI	none	Score	58
Exons	18077..18163, 18173..18256, 18186..18260, 18251..18349, 18252..18350		

Seq. No.	20861	Seq. ID	OJ991027_11.0119.C4
Gene No.	43526	Strand	-
Start	37723	End	37902
Name	OJ991027_11.0119.C4.o4.tw	Method	TBLASTX:Wheat
Start	18420	End	18811
GI	none	Score	56
Exons	18420..18467, 18422..18613, 18422..18808, 18498..18800, 18650..18811		

Seq. No.	20861	Seq. ID	OJ991027_11.0119.C4
Gene No.	43526	Strand	-
Start	37723	End	37902
Name	OJ991027_11.0119.C4.o1.tm	Method	TBLASTX:Maize
Start	18491	End	18814
GI	none	Score	251
Exons	18491..18814, 18492..18794		

Seq. No.	20861	Seq. ID	OJ991027_11.0119.C4
Gene No.	43526	Strand	-
Start	37723	End	37902
Name	OJ991027_11.0119.C4.o12.tw	Method	TBLASTX:Wheat
Start	18812	End	19111
GI	none	Score	56
Exons	18812..18910, 18837..18923, 18977..19111		

Seq. No.	20861	Seq. ID	OJ991027_11.0119.C4
Gene No.	43526	Strand	-
Start	37723	End	37902
Name	OJ991027_11.0119.C4.o6.tw	Method	TBLASTX:Wheat
Start	19127	End	19549
GI	none	Score	232
Exons	19127..19549, 19203..19544		

Seq. No.	20861	Seq. ID	OJ991027_11.0119.C4
Gene No.	43526	Strand	-
Start	37723	End	37902
Name	OJ991027_11.0119.C4.o3.ts	Method	TBLASTX:Soybean
Start	19170	End	19558
GI	none	Score	121
Exons	19170..19418, 19172..19414, 19454..19558, 19461..19550		

Seq. No.	20861	Seq. ID	OJ991027_11.0119.C4
Gene No.	43526	Strand	-
Start	37723	End	37902
Name	OJ991027_11.0119.C4.o11.tm	Method	TBLASTX:Maize
Start	19223	End	19496
GI	none	Score	53

Exons 19223..19321, 19224..19289, 19325..19495, 19326..19496

Seq. No.	20861	Seq. ID	OJ991027_11.0119.C4
Gene No.	43526	Strand	-
Start	37723	End	37902
Name	OJ991027_11.0119.C4.o5.tw	Method	TBLASTX:Wheat
Start	19586	End	20014
GI	none	Score	415
Exons	19586..20014		

Seq. No.	20861	Seq. ID	OJ991027_11.0119.C4
Gene No.	43526	Strand	-
Start	37723	End	37902
Name	OJ991027_11.0119.C4.o4.tm	Method	TBLASTX:Maize
Start	19673	End	20117
GI	none	Score	140
Exons	19673..19699, 19697..19840, 19859..20116, 19862..20116, 19863..20117		

Seq. No.	20861	Seq. ID	OJ991027_11.0119.C4
Gene No.	43526	Strand	-
Start	37723	End	37902
Name	OJ991027_11.0119.C4.o2.ts	Method	TBLASTX:Soybean
Start	19784	End	20185
GI	none	Score	44
Exons	19784..20185, 19818..19988, 20025..20168		

Seq. No.	20861	Seq. ID	OJ991027_11.0119.C4
Gene No.	43526	Strand	-
Start	37723	End	37902
Name	OJ991027_11.0119.C4.o2.tw	Method	TBLASTX:Wheat
Start	20060	End	31673
GI	none	Score	221
Exons	20060..20479, 20061..20477, 31554..31673		

Seq. No.	20861	Seq. ID	OJ991027_11.0119.C4
Gene No.	43526	Strand	-
Start	37723	End	37902
Name	OJ991027_11.0119.C4.o3.tm	Method	TBLASTX:Maize
Start	20348	End	20705
GI	none	Score	197
Exons	20348..20704, 20358..20705		

Seq. No.	20861	Seq. ID	OJ991027_11.0119.C4
Gene No.	43526	Strand	-
Start	37723	End	37902
Name	OJ991027_11.0119.C4.o5.ts	Method	TBLASTX:Soybean
Start	20429	End	20794
GI	none	Score	140
Exons	20429..20563, 20570..20794		

Seq. No.	20861	Seq. ID	OJ991027_11.0119.C4
Gene No.	43526	Strand	-
Start	37723	End	37902
Name	OJ991027_11.0119.C4.o7.tw	Method	TBLASTX:Wheat
Start	20479	End	20713
GI	none	Score	120

Exons 20479..20643, 20480..20680, 20480..20713, 20481..20681

Seq. No. 20861 Seq. ID OJ991027\_11.0119.C4  
Gene No. 43526 Strand -  
Start 37723 End 37902  
Name OJ991027\_11.0119.C4.o1.tw Method TBLASTX:Wheat  
Start 20714 End 21511  
GI none Score 117  
Exons 20714..21007, 20718..20879, 21054..21290, 21056..21286,  
21335..21511

Seq. No. 20861 Seq. ID OJ991027\_11.0119.C4  
Gene No. 43526 Strand -  
Start 37723 End 37902  
Name OJ991027\_11.0119.C4.o12.tm Method TBLASTX:Maize  
Start 21026 End 21203  
GI none Score 106  
Exons 21026..21202, 21057..21203

Seq. No. 20861 Seq. ID OJ991027\_11.0119.C4  
Gene No. 43526 Strand -  
Start 37723 End 37902  
Name OJ991027\_11.0119.C4.o11.tw Method TBLASTX:Wheat  
Start 22001 End 22321  
GI none Score 184  
Exons 22001..22321

Seq. No. 20861 Seq. ID OJ991027\_11.0119.C4  
Gene No. 43526 Strand -  
Start 37723 End 37902  
Name OJ991027\_11.0119.C4.o9.tm Method TBLASTX:Maize  
Start 23014 End 24220  
GI none Score 140  
Exons 23014..23166, 23047..23160, 23339..23419, 23341..23421,  
23346..23420, 23349..23432, 23350..23421, 24163..24216,  
24164..24220

Seq. No. 20861 Seq. ID OJ991027\_11.0119.C4  
Gene No. 43526 Strand -  
Start 37723 End 37902  
Name OJ991027\_11.0119.C4.o10.tw Method TBLASTX:Wheat  
Start 23056 End 23437  
GI none Score 116  
Exons 23056..23169, 23056..23169, 23339..23419, 23349..23420,  
23352..23432, 23353..23436, 23354..23437

Seq. No. 20861 Seq. ID OJ991027\_11.0119.C4  
Gene No. 43526 Strand -  
Start 37723 End 37902  
Name OJ991027\_11.0119.C4.o3.tc Method TBLASTX:Cress  
Start 23056 End 24835  
GI none Score 81  
Exons 23056..23079, 23083..23166, 23339..23419, 23346..23420,  
24163..24216, 24164..24217, 24330..24362, 24341..24388,  
24464..24550, 24469..24558, 24471..24566, 24776..24835

Seq. No. 20861 Seq. ID OJ991027\_11.0119.C4

Gene No.	43526	Strand	-
Start	37723	End	37902
Name	OJ991027_11.0119.C4.o2.tc	Method	TBLASTX:Cress
Start	27094	End	29535
GI	none	Score	52
Exons	27094..27189, 27115..27375, 27116..27226, 27127..27441, 27178..27441, 27178..27426, 27178..27372, 27178..27432, 27241..27441, 27241..27441, 27241..27441, 27241..27441, 27241..27453, 27247..27441, 27250..27444, 27250..27441, 27251..27430, 27251..27334, 27251..27427, 27251..27433, 27253..27441, 27386..27442, 27562..27708, 27562..27696, 27571..27711, 27571..27711, 27571..27711, 27592..27708, 27592..27708, 27592..27708, 27595..27711, 27595..27708, 27595..27708, 27610..27711, 27745..27879, 27745..27942, 27748..28101, 27751..28086, 27760..28095, 27760..27975, 27763..28101, 27874..28110, 27883..28101, 27976..28161, 28048..28167, 28102..28167, 28111..28170, 28114..28167, 28119..28154, 28144..28287, 28159..28299, 28177..28314, 28177..28290, 28177..28305, 28180..28290, 28528..28737, 28540..28746, 28546..28746, 28549..28737, 28549..28746, 28549..28728, 28549..28728, 28555..28803, 28588..28737, 28756..29049, 28771..29040, 28771..28884, 28777..28884, 28777..28929, 28777..29040, 28783..29043, 28783..28929, 28843..28929, 28870..29043, 29284..29376, 29299..29376, 29365..29505, 29383..29535		

Seq. No.	20861	Seq. ID	OJ991027_11.0119.C4
Gene No.	43526	Strand	-
Start	37723	End	37902
Name	OJ991027_11.0119.C4.o5.tm	Method	TBLASTX:Maize
Start	27094	End	29038
GI	none	Score	97
Exons	27094..27363, 27241..27441, 27250..27453, 27367..27441, 27559..27708, 27571..28095, 27613..27708, 27742..27993, 27748..28065, 28015..28107, 28111..28155, 28153..28269, 28180..28299, 28225..28299, 28306..28446, 28540..28635, 28549..28728, 28756..28884, 28771..28929, 28777..28929, 28820..29038		

Seq. No.	20861	Seq. ID	OJ991027_11.0119.C4
Gene No.	43526	Strand	-
Start	37723	End	37902
Name	OJ991027_11.0119.C4.o1.ts	Method	TBLASTX:Soybean
Start	27115	End	29493
GI	none	Score	95
Exons	27115..27441, 27175..27441, 27175..27417, 27179..27412, 27241..27441, 27241..27444, 27244..27426, 27247..27444, 27250..27441, 27250..27426, 27559..28098, 27559..27708, 27562..27699, 27562..27711, 27601..27708, 27613..27708, 27682..27708, 27745..27960, 27745..27837, 27745..27927, 27748..28095, 27751..28014, 27760..28095, 27904..28095, 28111..28158, 28153..28299, 28177..28299, 28549..28740, 28549..28665, 28549..28797, 28555..28755, 28555..28755, 28561..28746, 28591..28737, 28771..28929, 28777..28929, 28777..28929, 28783..29037, 28783..28869, 29284..29376, 29383..29493		



Seq. No.	20861	Seq. ID	OJ991027_11.0119.C4
Gene No.	43526	Strand	-
Start	37723	End	37902
Name	OJ991027_11.0119.C4.o9.tw	Method	TBLASTX:Wheat
Start	27130	End	29061
GI	none	Score	122
Exons	27130..27444, 27143..27439, 27571..27708, 27613..27708, 27760..28014, 27955..28101, 28549..28737, 28768..28923, 28975..29061		

Seq. No.	20861	Seq. ID	OJ991027_11.0119.C4
Gene No.	43526	Strand	-
Start	37723	End	37902
Name	OJ991027_11.0119.C4.o5.gp	Method	AAT/GAP
Start	37290	End	37347
GI	LIB3431-030-P1-N1-G8	Score	80
Exons	37290..37347		
GI Descrip.	'5670155/gb AF161269.1 AF161269 4.0e-86 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence'		

Seq. No.	20861	Seq. ID	OJ991027_11.0119.C4
Gene No.	43526	Strand	-
Start	37723	End	37902
Name	OJ991027_11.0119.C4.o9.gs	Method	GENSCAN
Start	37723	End	37902
GI	none	Score	.95
Exons	37723..37902		

Seq. No.	20862	Seq. ID	OJ991027_11.0119.C5
Gene No.	43527	Strand	+
Start	2607	End	7067
Name	OJ991027_11.0119.C5.o1.gs	Method	GENSCAN
Start	2607	End	7067
GI	none	Score	.56
Exons	2607..2803, 2889..3075, 3613..3725, 5363..5560, 6361..6427, 6450..7067		

Seq. No.	20862	Seq. ID	OJ991027_11.0119.C5
Gene No.	43528	Strand	-
Start	1011	End	2195
Name	OJ991027_11.0119.C5.o1.np	Method	AAT/NAP
Start	1011	End	2195
GI	5042463	Score	179
Exons	1011..1141, 1193..1357, 2019..2195		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	20862	Seq. ID	OJ991027_11.0119.C5
Gene No.	43529	Strand	-
Start	7655	End	7996
Name	OJ991027_11.0119.C5.o2.gs	Method	GENSCAN
Start	7655	End	7996
GI	none	Score	1
Exons	7655..7996		

Seq. No.	20862	Seq. ID	OJ991027_11.0119.C5
Gene No.	43530	Strand	-
Start	8423	End	13672

Name OJ991027\_11.0119.C5.o3.gs Method GENSCAN  
 Start 8423 End 13672  
 GI none Score .66  
 Exons 8423..8511, 8808..8933, 8959..9154, 9219..9545, 9900..10072,  
 10096..10201, 10290..10358, 10917..11004, 11169..11421,  
 11878..12023, 12663..12742, 12793..13044, 13598..13672

Seq. No. 20862 Seq. ID OJ991027\_11.0119.C5  
 Gene No. 43530 Strand -  
 Start 8423 End 13672  
 Name OJ991027\_11.0119.C5.o2.np Method AAT/NAP  
 Start 10064 End 11970  
 GI 3947613 Score 128  
 Exons 10064..10201, 10290..10358, 10745..10810, 10917..11014,  
 11284..11570, 11878..11970  
 GI Descrip. (AL023828) cDNA EST EMBL:M89008 comes from this gene; cDNA EST  
 yk282d3.5 comes from this gene [Caenorhabditis elegans]

Seq. No. 20862 Seq. ID OJ991027\_11.0119.C5  
 Gene No. 43530 Strand -  
 Start 8423 End 13672  
 Name OJ991027\_11.0119.C5.o3.np Method AAT/NAP  
 Start 10243 End 13379  
 GI 3947613 Score 128  
 Exons 10243..10358, 10745..10810, 10917..11014, 11284..11570,  
 11878..11985, 12789..12932, 13312..13379  
 GI Descrip. (AL023828) cDNA EST EMBL:M89008 comes from this gene; cDNA EST  
 yk282d3.5 comes from this gene [Caenorhabditis elegans]

Seq. No. 20862 Seq. ID OJ991027\_11.0119.C5  
 Gene No. 43530 Strand -  
 Start 8423 End 13672  
 Name OJ991027\_11.0119.C5.o1.tm Method TBLASTX:Maize  
 Start 10935 End 12856  
 GI none Score 83  
 Exons 10935..11006, 10935..11003, 11115..11255, 11169..11222,  
 11171..11323, 11276..11326, 11306..11422, 11325..11423,  
 11501..11572, 11515..11571, 11519..11572, 11861..11995,  
 11862..11993, 11875..12003, 12794..12856

Seq. No. 20863 Seq. ID OJ991027\_11.0119.C6  
 Gene No. 43531 Strand +  
 Start 455 End 6663  
 Name OJ991027\_11.0119.C6.o1.gs Method GENSCAN  
 Start 455 End 5078  
 GI none Score .83  
 Exons 455..649, 689..879, 965..1030, 1118..1194, 1331..1447,  
 2017..2182, 2466..3211, 3265..3351, 3483..3626, 4171..4323,  
 4434..4802, 4939..5078

Seq. No. 20863 Seq. ID OJ991027\_11.0119.C6  
 Gene No. 43531 Strand +  
 Start 455 End 6663  
 Name OJ991027\_11.0119.C6.o1.np Method AAT/NAP  
 Start 2537 End 6445  
 GI 6730697 Score 1227  
 Exons 2537..2844, 2875..2945, 2979..3144, 3265..3388, 3483..3626,

4171..4323, 4434..4549, 4635..4802, 6054..6445

GI Descrip. (AC011809) calcium-dependent protein kinase 1 [Arabidopsis thaliana]

Seq. No.	20863	Seq. ID	OJ991027_11.0119.C6
Gene No.	43531	Strand	+
Start	455	End	6663
Name	OJ991027_11.0119.C6.o1.gp	Method	AAT/GAP
Start	2886	End	4215
GI	41344_1.R1084	Score	1046
Exons	2886..3144, 3265..3388, 3483..3626, 4171..4215		
GI Descrip.	'1314711 7.0e-51 (U54615) calcium-dependent protein kinase [Arabidopsis thaliana] >gi_3068712 (AF049236) calcium dependent protein kinase [Arabidopsis thaliana]'		

Seq. No.	20863	Seq. ID	OJ991027_11.0119.C6
Gene No.	43531	Strand	+
Start	455	End	6663
Name	OJ991027_11.0119.C6.o3.gp	Method	AAT/GAP
Start	5815	End	5904
GI	LIB3477-003-P1-K1-E9	Score	94
Exons	5815..5904		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	20863	Seq. ID	OJ991027_11.0119.C6
Gene No.	43531	Strand	+
Start	455	End	6663
Name	OJ991027_11.0119.C6.o2.gs	Method	GENSCAN
Start	6042	End	6407
GI	none	Score	.55
Exons	6042..6407		

Seq. No.	20863	Seq. ID	OJ991027_11.0119.C6
Gene No.	43531	Strand	+
Start	455	End	6663
Name	OJ991027_11.0119.C6.o4.gp	Method	AAT/GAP
Start	6168	End	6663
GI	70186_1.R1084	Score	924
Exons	6168..6663		
GI Descrip.	'5882721/gb AAD55274.1 AC008263_5 9.0e-19 (AC008263) Strong similarity to gb_D21805 calcium-dependent protein kinase (CDPK) from Arabidopsis thaliana and contains a PF_00069 Eukaryotic protein kinase and 4 PF_00036 EF hand domains'		

Seq. No.	20863	Seq. ID	OJ991027_11.0119.C6
Gene No.	43532	Strand	+
Start	12615	End	12744
Name	OJ991027_11.0119.C6.o8.gp	Method	AAT/GAP
Start	12615	End	12744
GI	2312418	Score	202
Exons	12615..12744		
GI Descrip.	3335347 9.0e-24 (AC004512) Contains similarity to ARI, RING finger protein gb_X98309 from Drosophila melanogaster. ESTs gb_T44383, gb_W43120, gb_N65868, gb_H36013, gb_AA042241, gb_T76869 and gb_AA042359 come from this gene. [Arabidopsis		

thaliana]

Seq. No.	20863	Seq. ID	OJ991027_11.0119.C6
Gene No.	43533	Strand	-
Start	5316	End	5812
Name	OJ991027_11.0119.C6.o2.gp	Method	AAT/GAP
Start	5316	End	5812
GI	LIB3432-059-P1-K1-D8	Score	672
Exons	5316..5344, 5419..5812		
GI Descrip.	'5734616/dbj AP000391.1 AP000391 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	20863	Seq. ID	OJ991027_11.0119.C6
Gene No.	43534	Strand	-
Start	6062	End	23073
Name	OJ991027_11.0119.C6.o1.ts	Method	TBLASTX:Soybean
Start	2698	End	6392
GI	none	Score	137
Exons	2698..2841, 2709..2846, 3016..3156, 3016..3087, 3024..3140, 3259..3390, 3267..3389, 3481..3630, 3482..3622, 4166..4318, 4167..4322, 4433..4546, 4438..4608, 4629..4802, 6057..6206, 6222..6392, 6251..6337		

Seq. No.	20863	Seq. ID	OJ991027_11.0119.C6
Gene No.	43534	Strand	-
Start	6062	End	23073
Name	OJ991027_11.0119.C6.o1.tm	Method	TBLASTX:Maize
Start	2700	End	6398
GI	none	Score	183
Exons	2700..2831, 2701..2847, 2719..2847, 2980..3009, 3016..3159, 3016..3075, 3024..3140, 3229..3384, 3230..3385, 3259..3390, 3261..3389, 3481..3627, 3482..3628, 4169..4318, 4173..4322, 4175..4321, 4432..4551, 4433..4549, 4634..4747, 4635..4802, 6030..6227, 6092..6151, 6210..6398, 6227..6337		

Seq. No.	20863	Seq. ID	OJ991027_11.0119.C6
Gene No.	43534	Strand	-
Start	6062	End	23073
Name	OJ991027_11.0119.C6.o1.tc	Method	TBLASTX:Cress
Start	2710	End	6392
GI	none	Score	122
Exons	2710..2841, 2733..2822, 2893..2919, 3016..3156, 3259..3390, 3267..3389, 3481..3630, 3482..3622, 4166..4321, 4167..4322, 4432..4575, 4433..4546, 6057..6209, 6222..6392, 6251..6337		

Seq. No.	20863	Seq. ID	OJ991027_11.0119.C6
Gene No.	43534	Strand	-
Start	6062	End	23073
Name	OJ991027_11.0119.C6.o2.tw	Method	TBLASTX:Wheat
Start	3055	End	3583
GI	none	Score	107
Exons	3055..3159, 3069..3140, 3259..3390, 3261..3389, 3481..3582, 3482..3583		

Seq. No.	20863	Seq. ID	OJ991027_11.0119.C6
Gene No.	43534	Strand	-
Start	6062	End	23073

Name	OJ991027_11.0119.C6.o3.tw	Method	TBLASTX:Wheat
Start	3584	End	4322
GI	none	Score	77
Exons	3584..3622, 4166..4321, 4167..4322		

Seq. No.	20863	Seq. ID	OJ991027_11.0119.C6
Gene No.	43534	Strand	-
Start	6062	End	23073
Name	OJ991027_11.0119.C6.o2.np	Method	AAT/NAP
Start	6062	End	13983
GI	3335347	Score	1374
Exons	6062..6256, 7230..7501, 8375..8522, 8613..8706, 8804..8875, 9004..9051, 9665..9754, 9964..10054, 10143..10250, 10995..11083, 11188..11289, 11439..11611, 11842..11947, 12058..12172, 12621..12745, 13837..13983		

GI Descrip. (AC004512) Contains similarity to ARI, RING finger protein gb|X98309 from *Drosophila melanogaster*. ESTs gb|T44383, gb|W43120, gb|N65868, gb|H36013, gb|AA042241, gb|T76869 and gb|AA042359 come from this gene. [*Arabidopsis thaliana*]

Seq. No.	20863	Seq. ID	OJ991027_11.0119.C6
Gene No.	43534	Strand	-
Start	6062	End	23073
Name	OJ991027_11.0119.C6.o1.tw	Method	TBLASTX:Wheat
Start	6072	End	6392
GI	none	Score	416
Exons	6072..6329, 6092..6154, 6195..6239, 6227..6328, 6336..6392		

Seq. No.	20863	Seq. ID	OJ991027_11.0119.C6
Gene No.	43534	Strand	-
Start	6062	End	23073
Name	OJ991027_11.0119.C6.o2.tm	Method	TBLASTX:Maize
Start	6900	End	11916
GI	none	Score	56
Exons	6900..6956, 7084..7125, 7084..7116, 7216..7431, 7217..7366, 7355..7393, 7408..7503, 7427..7504, 7444..7548, 8375..8428, 8377..8427, 8457..8525, 8458..8523, 8459..8530, 8590..8709, 8611..8709, 8612..8728, 8801..8872, 8805..8873, 8806..8877, 8998..9051, 9008..9052, 9665..9754, 9668..9754, 9964..10068, 9965..10054, 9966..10076, 10142..10243, 10143..10250, 10180..10254, 10976..11092, 10993..11103, 10994..11104, 10995..11108, 11188..11292, 11189..11290, 11190..11294, 11190..11300, 11431..11619, 11438..11572, 11439..11612, 11815..11916, 11840..11914		

Seq. No.	20863	Seq. ID	OJ991027_11.0119.C6
Gene No.	43534	Strand	-
Start	6062	End	23073
Name	OJ991027_11.0119.C6.o5.gp	Method	AAT/GAP
Start	7236	End	11507
GI	44656_1.R1084	Score	2135
Exons	7236..7501, 8375..8522, 8613..8706, 8804..8875, 9004..9051, 9665..9754, 9964..10054, 10143..10250, 10995..11083, 11188..11289, 11439..11507		
GI Descrip.	'3335347 1.0e-149 (AC004512) Contains similarity to ARI, RING finger protein gb_X98309 from <i>Drosophila melanogaster</i> . ESTs gb_T44383, gb_W43120, gb_N65868, gb_H36013, gb_AA042241,		

gb\_T76869 and gb\_AA042359 come from this gene. [Arabidopsis thaliana]'

Seq. No.	20863	Seq. ID	OJ991027_11.0119.C6
Gene No.	43534	Strand	-
Start	6062	End	23073
Name	OJ991027_11.0119.C6.o3.gs	Method	GENSCAN
Start	7240	End	23073
GI	none	Score	.62
Exons	7240..7501, 8375..8522, 8613..8706, 8804..8875, 9004..9051, 9665..9754, 9964..10054, 10995..11083, 11439..11611, 11842..11932, 12070..12172, 12621..12742, 13837..14249, 17900..18110, 18371..18545, 19786..19869, 22224..22310, 22925..23073		

Seq. No.	20863	Seq. ID	OJ991027_11.0119.C6
Gene No.	43534	Strand	-
Start	6062	End	23073
Name	OJ991027_11.0119.C6.o3.tc	Method	TBLASTX:Cress
Start	8461	End	8751
GI	none	Score	56
Exons	8461..8523, 8462..8530, 8595..8708, 8611..8751, 8612..8749		

Seq. No.	20863	Seq. ID	OJ991027_11.0119.C6
Gene No.	43534	Strand	-
Start	6062	End	23073
Name	OJ991027_11.0119.C6.o2.ts	Method	TBLASTX:Soybean
Start	8485	End	11513
GI	none	Score	41
Exons	8485..8523, 8486..8530, 8612..8650, 8647..8748, 8648..8749, 8801..8869, 9665..9754, 9665..9754, 9670..9768, 9678..9767, 9947..10054, 9964..10068, 10142..10243, 10143..10250, 10143..10250, 10976..11092, 10977..11081, 10994..11086, 11188..11241, 11189..11278, 11197..11292, 11439..11513		

Seq. No.	20863	Seq. ID	OJ991027_11.0119.C6
Gene No.	43534	Strand	-
Start	6062	End	23073
Name	OJ991027_11.0119.C6.o2.tc	Method	TBLASTX:Cress
Start	9664	End	10205
GI	none	Score	74
Exons	9664..9756, 9665..9757, 9665..9757, 9670..9762, 9947..10054, 9967..10065, 9967..10068, 10142..10204, 10143..10205		

Seq. No.	20863	Seq. ID	OJ991027_11.0119.C6
Gene No.	43534	Strand	-
Start	6062	End	23073
Name	OJ991027_11.0119.C6.o6.gp	Method	AAT/GAP
Start	11838	End	12172
GI	2312418	Score	311
Exons	11838..11932, 12070..12172		
GI Descrip.	3335347 9.0e-24 (AC004512) Contains similarity to ARI, RING finger protein gb_X98309 from Drosophila melanogaster. ESTs gb_T44383, gb_W43120, gb_N65868, gb_H36013, gb_AA042241, gb_T76869 and gb_AA042359 come from this gene. [Arabidopsis thaliana]		

Seq. No.	20863	Seq. ID	OJ991027_11.0119.C6
Gene No.	43534	Strand	-
Start	6062	End	23073
Name	OJ991027_11.0119.C6.o7.gp	Method	AAT/GAP
Start	11877	End	12173
GI	2312418	Score	274
Exons	11877..11932, 12070..12173		
GI Descrip.	3335347 9.0e-24 (AC004512) Contains similarity to ARI, RING finger protein gb_X98309 from Drosophila melanogaster. ESTs gb_T44383, gb_W43120, gb_N65868, gb_H36013, gb_AA042241, gb_T76869 and gb_AA042359 come from this gene. [Arabidopsis thaliana]		

Seq. No.	20864	Seq. ID	OJ991027_11.0119.C7
Gene No.	43535	Strand	-
Start	510	End	538
Name	OJ991027_11.0119.C7.o1.gs	Method	GENSCAN
Start	510	End	538
GI	none	Score	.7
Exons	510..538		

Seq. No.	20865	Seq. ID	OJ991117_17.0128.C2
Gene No.	43536	Strand	+
Start	338	End	793
Name	OJ991117_17.0128.C2.o1.gs	Method	GENSCAN
Start	338	End	793
GI	none	Score	.54
Exons	338..467, 510..793		

Seq. No.	20866	Seq. ID	OJ991117_17.0128.C3
Gene No.	43537	Strand	+
Start	51	End	4556
Name	OJ991117_17.0128.C3.o1.np	Method	AAT/NAP
Start	51	End	4553
GI	4680179	Score	5452
Exons	51..1118, 1152..4553		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	20866	Seq. ID	OJ991117_17.0128.C3
Gene No.	43537	Strand	+
Start	51	End	4556
Name	OJ991117_17.0128.C3.o1.gs	Method	GENSCAN
Start	54	End	4556
GI	none	Score	.87
Exons	54..4556		

Seq. No.	20866	Seq. ID	OJ991117_17.0128.C3
Gene No.	43537	Strand	+
Start	51	End	4556
Name	OJ991117_17.0128.C3.o9.tw	Method	TBLASTX:Wheat
Start	133	End	475
GI	none	Score	211
Exons	133..165, 276..473, 278..475		

Seq. No.	20866	Seq. ID	OJ991117_17.0128.C3
Gene No.	43537	Strand	+
Start	51	End	4556

Name OJ991117\_17.0128.C3.o7.tw  
 Start 509  
 GI none  
 Exons 509..703, 510..860

Method TBLASTX:Wheat  
 End 860  
 Score 292

Seq. No. 20866  
 Gene No. 43537  
 Start 51  
 Name OJ991117\_17.0128.C3.o6.tm  
 Start 510  
 GI none  
 Exons 510..815, 524..640

Seq. ID OJ991117\_17.0128.C3  
 Strand +  
 End 4556  
 Method TBLASTX:Maize  
 End 815  
 Score 231

Seq. No. 20866  
 Gene No. 43537  
 Start 51  
 Name OJ991117\_17.0128.C3.o7.tm  
 Start 1143  
 GI none  
 Exons 1143..1496

Seq. ID OJ991117\_17.0128.C3  
 Strand +  
 End 4556  
 Method TBLASTX:Maize  
 End 1496  
 Score 189

Seq. No. 20866  
 Gene No. 43537  
 Start 51  
 Name OJ991117\_17.0128.C3.o8.tw  
 Start 1179  
 GI none  
 Exons 1179..1388, 1235..1387, 1433..1546, 1434..1601

Seq. ID OJ991117\_17.0128.C3  
 Strand +  
 End 4556  
 Method TBLASTX:Wheat  
 End 1601  
 Score 166

Seq. No. 20866  
 Gene No. 43537  
 Start 51  
 Name OJ991117\_17.0128.C3.o4.tw  
 Start 1712  
 GI none  
 Exons 1712..2155, 1716..1766, 1821..2198

Seq. ID OJ991117\_17.0128.C3  
 Strand +  
 End 4556  
 Method TBLASTX:Wheat  
 End 2198  
 Score 51

Seq. No. 20866  
 Gene No. 43537  
 Start 51  
 Name OJ991117\_17.0128.C3.o5.tm  
 Start 1727  
 GI none  
 Exons 1727..2017, 1728..2015

Seq. ID OJ991117\_17.0128.C3  
 Strand +  
 End 4556  
 Method TBLASTX:Maize  
 End 2017  
 Score 277

Seq. No. 20866  
 Gene No. 43537  
 Start 51  
 Name OJ991117\_17.0128.C3.o2.tc  
 Start 1845  
 GI none  
 Exons 1845..2162

Seq. ID OJ991117\_17.0128.C3  
 Strand +  
 End 4556  
 Method TBLASTX:Cress  
 End 2162  
 Score 180

Seq. No. 20866  
 Gene No. 43537  
 Start 51  
 Name OJ991117\_17.0128.C3.o3.tm

Seq. ID OJ991117\_17.0128.C3  
 Strand +  
 End 4556  
 Method TBLASTX:Maize



Start	2085	End	2585
GI	none	Score	167
Exons	2085..2264, 2093..2239, 2271..2585, 2336..2464, 2492..2542		

Seq. No.	20866	Seq. ID	OJ991117_17.0128.C3
Gene No.	43537	Strand	+
Start	51	End	4556
Name	OJ991117_17.0128.C3.o1.ts	Method	TBLASTX:Soybean
Start	2139	End	2534
GI	none	Score	57
Exons	2139..2171, 2141..2170, 2174..2377, 2175..2534, 2177..2215, 2243..2533		

Seq. No.	20866	Seq. ID	OJ991117_17.0128.C3
Gene No.	43537	Strand	+
Start	51	End	4556
Name	OJ991117_17.0128.C3.o5.tw	Method	TBLASTX:Wheat
Start	2247	End	2549
GI	none	Score	381
Exons	2247..2549, 2249..2533		

Seq. No.	20866	Seq. ID	OJ991117_17.0128.C3
Gene No.	43537	Strand	+
Start	51	End	4556
Name	OJ991117_17.0128.C3.o3.tw	Method	TBLASTX:Wheat
Start	2550	End	2972
GI	none	Score	598
Exons	2550..2972, 2582..2971		

Seq. No.	20866	Seq. ID	OJ991117_17.0128.C3
Gene No.	43537	Strand	+
Start	51	End	4556
Name	OJ991117_17.0128.C3.o3.ts	Method	TBLASTX:Soybean
Start	2556	End	2801
GI	none	Score	207
Exons	2556..2801, 2573..2800		

Seq. No.	20866	Seq. ID	OJ991117_17.0128.C3
Gene No.	43537	Strand	+
Start	51	End	4556
Name	OJ991117_17.0128.C3.o2.tm	Method	TBLASTX:Maize
Start	2621	End	2984
GI	none	Score	482
Exons	2621..2971, 2622..2975, 2622..2984		

Seq. No.	20866	Seq. ID	OJ991117_17.0128.C3
Gene No.	43537	Strand	+
Start	51	End	4556
Name	OJ991117_17.0128.C3.o2.tw	Method	TBLASTX:Wheat
Start	2975	End	3542
GI	none	Score	649
Exons	2975..3538, 3006..3542		

Seq. No.	20866	Seq. ID	OJ991117_17.0128.C3
Gene No.	43537	Strand	+
Start	51	End	4556
Name	OJ991117_17.0128.C3.o1.tc	Method	TBLASTX:Cress

Start	3249	End	3566
GI	none	Score	90
Exons	3249..3422, 3423..3566, 3425..3565		

Seq. No.	20866	Seq. ID	OJ991117_17.0128.C3
Gene No.	43537	Strand	+
Start	51	End	4556
Name	OJ991117_17.0128.C3.o2.ts	Method	TBLASTX:Soybean
Start	3330	End	3591
GI	none	Score	297
Exons	3330..3590, 3335..3589, 3454..3591		

Seq. No.	20866	Seq. ID	OJ991117_17.0128.C3
Gene No.	43537	Strand	+
Start	51	End	4556
Name	OJ991117_17.0128.C3.o4.tm	Method	TBLASTX:Maize
Start	3389	End	3680
GI	none	Score	374
Exons	3389..3676, 3390..3680		

Seq. No.	20866	Seq. ID	OJ991117_17.0128.C3
Gene No.	43537	Strand	+
Start	51	End	4556
Name	OJ991117_17.0128.C3.o1.tw	Method	TBLASTX:Wheat
Start	3549	End	4175
GI	none	Score	708
Exons	3549..4175, 3605..4063, 3921..4172		

Seq. No.	20866	Seq. ID	OJ991117_17.0128.C3
Gene No.	43537	Strand	+
Start	51	End	4556
Name	OJ991117_17.0128.C3.o1.tm	Method	TBLASTX:Maize
Start	3729	End	4328
GI	none	Score	231
Exons	3729..3890, 3734..3892, 3737..3883, 3887..3985, 3887..4312, 3888..4328		

Seq. No.	20866	Seq. ID	OJ991117_17.0128.C3
Gene No.	43537	Strand	+
Start	51	End	4556
Name	OJ991117_17.0128.C3.o6.tw	Method	TBLASTX:Wheat
Start	4175	End	4508
GI	none	Score	292
Exons	4175..4444, 4176..4508, 4179..4487		

Seq. No.	20867	Seq. ID	OJ991117_17.0128.C4
Gene No.	43538	Strand	+
Start	1	End	277
Name	OJ991117_17.0128.C4.o1.np	Method	AAT/NAP
Start	1	End	277
GI	6063554	Score	98
Exons	1..277		
GI Descrip.	(AP000615) ESTs AU075609(C63344);C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	20867	Seq. ID	OJ991117_17.0128.C4
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Gene No.	43539	Strand	+
Start	1451	End	1810
Name	OJ991117_17.0128.C4.o2.np	Method	AAT/NAP
Start	1451	End	1810
GI	4512231	Score	612
Exons	1451..1810		
GI Descrip.	(AB014741) ORF0 protein [Oryza sativa]		

Seq. No.	20867	Seq. ID	OJ991117_17.0128.C4
Gene No.	43539	Strand	+
Start	1451	End	1810
Name	OJ991117_17.0128.C4.o1.gs	Method	GENSCAN
Start	1559	End	1775
GI	none	Score	.85
Exons	1559..1775		

Seq. No.	20868	Seq. ID	OJ991117_17.0128.C5
Gene No.	43540	Strand	+
Start	1	End	1311
Name	OJ991117_17.0128.C5.o1.np	Method	AAT/NAP
Start	1	End	1311
GI	4680179	Score	1374
Exons	1..229, 257..1311		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	20868	Seq. ID	OJ991117_17.0128.C5
Gene No.	43540	Strand	+
Start	1	End	1311
Name	OJ991117_17.0128.C5.o1.gs	Method	GENSCAN
Start	62	End	1186
GI	none	Score	.49
Exons	62..904, 984..1186		

Seq. No.	20868	Seq. ID	OJ991117_17.0128.C5
Gene No.	43540	Strand	+
Start	1	End	1311
Name	OJ991117_17.0128.C5.o2.tw	Method	TBLASTX:Wheat
Start	335	End	688
GI	none	Score	256
Exons	335..688, 425..613		

Seq. No.	20868	Seq. ID	OJ991117_17.0128.C5
Gene No.	43540	Strand	+
Start	1	End	1311
Name	OJ991117_17.0128.C5.o1.tw	Method	TBLASTX:Wheat
Start	820	End	1304
GI	none	Score	143
Exons	820..981, 821..985, 889..1176, 966..1304, 971..1261		

Seq. No.	20868	Seq. ID	OJ991117_17.0128.C5
Gene No.	43540	Strand	+
Start	1	End	1311
Name	OJ991117_17.0128.C5.o1.tm	Method	TBLASTX:Maize
Start	830	End	1123
GI	none	Score	141
Exons	830..985, 832..966, 966..1121, 969..1094, 974..1123		

Seq. No.	20869	Seq. ID	OJ991117_17.0128.C6
Gene No.	43541	Strand	+
Start	1	End	153
Name	OJ991117_17.0128.C6.o1.np	Method	AAT/NAP
Start	1	End	153
GI	4512231	Score	243
Exons	1..153		
GI Descrip.	(AB014741) ORF0 protein [Oryza sativa]		

Seq. No.	20869	Seq. ID	OJ991117_17.0128.C6
Gene No.	43542	Strand	+
Start	399	End	1282
Name	OJ991117_17.0128.C6.o2.np	Method	AAT/NAP
Start	399	End	1282
GI	4680179	Score	717
Exons	399..1282		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	20869	Seq. ID	OJ991117_17.0128.C6
Gene No.	43542	Strand	+
Start	399	End	1282
Name	OJ991117_17.0128.C6.o1.gs	Method	GENSCAN
Start	430	End	1174
GI	none	Score	.67
Exons	430..1174		

Seq. No.	20869	Seq. ID	OJ991117_17.0128.C6
Gene No.	43542	Strand	+
Start	399	End	1282
Name	OJ991117_17.0128.C6.o2.tw	Method	TBLASTX:Wheat
Start	597	End	795
GI	none	Score	214
Exons	597..794, 598..795, 601..795		

Seq. No.	20869	Seq. ID	OJ991117_17.0128.C6
Gene No.	43542	Strand	+
Start	399	End	1282
Name	OJ991117_17.0128.C6.o1.tm	Method	TBLASTX:Maize
Start	847	End	1152
GI	none	Score	242
Exons	847..1152		

Seq. No.	20869	Seq. ID	OJ991117_17.0128.C6
Gene No.	43542	Strand	+
Start	399	End	1282
Name	OJ991117_17.0128.C6.o1.tw	Method	TBLASTX:Wheat
Start	847	End	1176
GI	none	Score	289
Exons	847..1176, 937..1041		

Seq. No.	20870	Seq. ID	OJ991117_17.0128.C7
Gene No.	43543	Strand	+
Start	1	End	2379
Name	OJ991117_17.0128.C7.o1.np	Method	AAT/NAP
Start	1	End	2379
GI	4680179	Score	3527
Exons	1..2379		

GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. No.	20870	Seq. ID	OJ991117_17.0128.C7
Gene No.	43544	Strand	+
Start	2890	End	4683
Name	OJ991117_17.0128.C7.o1.ts	Method	TBLASTX:Soybean
Start	1	End	360
GI	none	Score	400
Exons	1..360, 3..53, 4..330, 102..350		

Seq. No.	20870	Seq. ID	OJ991117_17.0128.C7
Gene No.	43544	Strand	+
Start	2890	End	4683
Name	OJ991117_17.0128.C7.o4.tw	Method	TBLASTX:Wheat
Start	84	End	375
GI	none	Score	373
Exons	84..374, 112..375		

Seq. No.	20870	Seq. ID	OJ991117_17.0128.C7
Gene No.	43544	Strand	+
Start	2890	End	4683
Name	OJ991117_17.0128.C7.o4.tm	Method	TBLASTX:Maize
Start	109	End	441
GI	none	Score	310
Exons	109..441, 162..440		

Seq. No.	20870	Seq. ID	OJ991117_17.0128.C7
Gene No.	43544	Strand	+
Start	2890	End	4683
Name	OJ991117_17.0128.C7.o3.tw	Method	TBLASTX:Wheat
Start	376	End	801
GI	none	Score	587
Exons	376..801, 378..794, 451..801		

Seq. No.	20870	Seq. ID	OJ991117_17.0128.C7
Gene No.	43544	Strand	+
Start	2890	End	4683
Name	OJ991117_17.0128.C7.o3.ts	Method	TBLASTX:Soybean
Start	382	End	630
GI	none	Score	207
Exons	382..630		

Seq. No.	20870	Seq. ID	OJ991117_17.0128.C7
Gene No.	43544	Strand	+
Start	2890	End	4683
Name	OJ991117_17.0128.C7.o2.tm	Method	TBLASTX:Maize
Start	448	End	801
GI	none	Score	460
Exons	448..801, 453..794		

Seq. No.	20870	Seq. ID	OJ991117_17.0128.C7
Gene No.	43544	Strand	+
Start	2890	End	4683
Name	OJ991117_17.0128.C7.o2.tw	Method	TBLASTX:Wheat
Start	829	End	1369
GI	none	Score	611
Exons	829..1368, 870..1364, 1124..1369		

Seq. No.	20870	Seq. ID	OJ991117_17.0128.C7
Gene No.	43544	Strand	+
Start	2890	End	4683
Name	OJ991117_17.0128.C7.o2.ts	Method	TBLASTX:Soybean
Start	1156	End	1416
GI	none	Score	292
Exons	1156..1416, 1167..1415		
Seq. No.	20870	Seq. ID	OJ991117_17.0128.C7
Gene No.	43544	Strand	+
Start	2890	End	4683
Name	OJ991117_17.0128.C7.o3.tm	Method	TBLASTX:Maize
Start	1215	End	1506
GI	none	Score	151
Exons	1215..1466, 1215..1502, 1216..1506, 1216..1503		
Seq. No.	20870	Seq. ID	OJ991117_17.0128.C7
Gene No.	43544	Strand	+
Start	2890	End	4683
Name	OJ991117_17.0128.C7.o1.tw	Method	TBLASTX:Wheat
Start	1375	End	2001
GI	none	Score	708
Exons	1375..2001, 1434..1880, 1435..1959		
Seq. No.	20870	Seq. ID	OJ991117_17.0128.C7
Gene No.	43544	Strand	+
Start	2890	End	4683
Name	OJ991117_17.0128.C7.o1.tm	Method	TBLASTX:Maize
Start	1554	End	2139
GI	none	Score	229
Exons	1554..1709, 1555..1716, 1713..1874, 1714..2139, 1941..2138		
Seq. No.	20870	Seq. ID	OJ991117_17.0128.C7
Gene No.	43544	Strand	+
Start	2890	End	4683
Name	OJ991117_17.0128.C7.o5.tw	Method	TBLASTX:Wheat
Start	2001	End	2334
GI	none	Score	319
Exons	2001..2282, 2002..2334, 2152..2283		
Seq. No.	20870	Seq. ID	OJ991117_17.0128.C7
Gene No.	43544	Strand	+
Start	2890	End	4683
Name	OJ991117_17.0128.C7.o2.np	Method	AAT/NAP
Start	2554	End	4683
GI	6063554	Score	172
Exons	2554..2587, 3132..3350, 3435..3479, 4512..4683		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	20870	Seq. ID	OJ991117_17.0128.C7
Gene No.	43544	Strand	+
Start	2890	End	4683
Name	OJ991117_17.0128.C7.o2.gs	Method	GENSCAN
Start	2890	End	3959

GI none Score .53  
Exons 2890..3174, 3195..3376, 3430..3608, 3862..3959

Seq. No. 20870 Seq. ID OJ991117\_17.0128.C7  
Gene No. 43544 Strand +  
Start 2890 End 4683  
Name OJ991117\_17.0128.C7.o1.gp Method AAT/GAP  
Start 4064 End 4444  
GI 2427387 Score 506  
Exons 4064..4444  
GI Descrip. 5852170/emb|AL117265.1|OST17804 3.0e-94 Oryza sativa  
indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804

Seq. No. 20871 Seq. ID OJ991117\_17.0128.C8  
Gene No. 43545 Strand +  
Start 47 End 1399  
Name OJ991117\_17.0128.C8.o1.gs Method GENSCAN  
Start 47 End 1399  
GI none Score .85  
Exons 47..327, 713..1399

Seq. No. 20872 Seq. ID OJ991117\_17.0128.C9  
Gene No. 43546 Strand +  
Start 2564 End 7095  
Name OJ991117\_17.0128.C9.o4.np Method AAT/NAP  
Start 2564 End 6669  
GI 5902445 Score 286  
Exons 2564..2657, 6247..6669  
GI Descrip. (AB030283) GAG-POL precursor [Oryza sativa]

Seq. No. 20872 Seq. ID OJ991117\_17.0128.C9  
Gene No. 43546 Strand +  
Start 2564 End 7095  
Name OJ991117\_17.0128.C9.o2.gs Method GENSCAN  
Start 6294 End 7095  
GI none Score .4  
Exons 6294..6413, 6729..6914, 7030..7095

Seq. No. 20872 Seq. ID OJ991117\_17.0128.C9  
Gene No. 43547 Strand +  
Start 10174 End 12904  
Name OJ991117\_17.0128.C9.o4.gs Method GENSCAN  
Start 10174 End 12904  
GI none Score .67  
Exons 10174..10347, 12449..12904

Seq. No. 20872 Seq. ID OJ991117\_17.0128.C9  
Gene No. 43547 Strand +  
Start 10174 End 12904  
Name OJ991117\_17.0128.C9.o1.gp Method AAT/GAP  
Start 11180 End 11561  
GI uC-osflcyp033a04b1 Score 647  
Exons 11180..11561  
GI Descrip. '6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic  
DNA, chromosome 1, clone:P0711E10'

Seq. No. 20872 Seq. ID OJ991117\_17.0128.C9

Gene No.	43548	Strand	-
Start	1	End	3383
Name	OJ991117_17.0128.C9.o2.np	Method	AAT/NAP
Start	1	End	3383
GI	4206306	Score	923
Exons	1..265, 809..2164, 3176..3383		
GI Descrip.	(AF049110) prpol [Zea mays]		
Seq. No.	20872	Seq. ID	OJ991117_17.0128.C9
Gene No.	43548	Strand	-
Start	1	End	3383
Name	OJ991117_17.0128.C9.o3.np	Method	AAT/NAP
Start	1	End	2535
GI	4378066	Score	911
Exons	1..272, 816..2190, 2476..2535		
GI Descrip.	(AF098806) polyprotein [Sorghum bicolor]		
	gi 4680208 gb AAD27571.1 AF114171_12 (AF114171) polyprotein		
	[Sorghum bicolor]		
Seq. No.	20872	Seq. ID	OJ991117_17.0128.C9
Gene No.	43549	Strand	-
Start	7229	End	12945
Name	OJ991117_17.0128.C9.o2.tw	Method	TBLASTX:Wheat
Start	814	End	1142
GI	none	Score	111
Exons	814..1014, 816..1136, 843..1142		
Seq. No.	20872	Seq. ID	OJ991117_17.0128.C9
Gene No.	43549	Strand	-
Start	7229	End	12945
Name	OJ991117_17.0128.C9.o2.tm	Method	TBLASTX:Maize
Start	816	End	1058
GI	none	Score	142
Exons	816..1058, 817..1035, 843..1055		
Seq. No.	20872	Seq. ID	OJ991117_17.0128.C9
Gene No.	43549	Strand	-
Start	7229	End	12945
Name	OJ991117_17.0128.C9.o1.tm	Method	TBLASTX:Maize
Start	1086	End	1442
GI	none	Score	229
Exons	1086..1130, 1142..1441, 1143..1442		
Seq. No.	20872	Seq. ID	OJ991117_17.0128.C9
Gene No.	43549	Strand	-
Start	7229	End	12945
Name	OJ991117_17.0128.C9.o1.tw	Method	TBLASTX:Wheat
Start	1142	End	1569
GI	none	Score	110
Exons	1142..1426, 1142..1459, 1143..1457, 1471..1569		
Seq. No.	20872	Seq. ID	OJ991117_17.0128.C9
Gene No.	43549	Strand	-
Start	7229	End	12945
Name	OJ991117_17.0128.C9.o3.gs	Method	GENSCAN
Start	7229	End	9107
GI	none	Score	.62



Exons 7229..7467, 7510..7722, 7848..8024, 8190..8514, 8551..8890, 8967..9025, 9096..9107

Seq. No. 20872 Seq. ID OJ991117\_17.0128.C9  
 Gene No. 43549 Strand -  
 Start 7229 End 12945  
 Name OJ991117\_17.0128.C9.o5.np Method AAT/NAP  
 Start 8128 End 10153  
 GI 6721561 Score 789  
 Exons 8128..8890, 8967..9025, 9096..9179, 9977..10153  
 GI Descrip. (AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]  
 gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No. 20872 Seq. ID OJ991117\_17.0128.C9  
 Gene No. 43549 Strand -  
 Start 7229 End 12945  
 Name OJ991117\_17.0128.C9.o6.np Method AAT/NAP  
 Start 9866 End 12945  
 GI 5852180 Score 436  
 Exons 9866..10259, 10311..10429, 11410..11472, 12809..12945  
 GI Descrip. (AL117265) zhb00010.1 [Oryza sativa]

Seq. No. 20873 Seq. ID OJ991117\_17.0128.C10  
 Gene No. 43550 Strand +  
 Start 1 End 2398  
 Name OJ991117\_17.0128.C10.o1.np Method AAT/NAP  
 Start 1 End 2398  
 GI 4680179 Score 2263  
 Exons 1..1064, 1098..2398  
 GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. No. 20873 Seq. ID OJ991117\_17.0128.C10  
 Gene No. 43550 Strand +  
 Start 1 End 2398  
 Name OJ991117\_17.0128.C10.o1.gs Method GENSCAN  
 Start 144 End 2333  
 GI none Score .73  
 Exons 144..353, 414..838, 903..1101, 1107..1176, 1390..1733, 1797..2333

Seq. No. 20873 Seq. ID OJ991117\_17.0128.C10  
 Gene No. 43550 Strand +  
 Start 1 End 2398  
 Name OJ991117\_17.0128.C10.o2.tw Method TBLASTX:Wheat  
 Start 221 End 1450  
 GI none Score 279  
 Exons 221..580, 222..581, 1349..1450

Seq. No. 20873 Seq. ID OJ991117\_17.0128.C10  
 Gene No. 43550 Strand +  
 Start 1 End 2398  
 Name OJ991117\_17.0128.C10.o2.tm Method TBLASTX:Maize  
 Start 462 End 767  
 GI none Score 235

Exons 462..767, 476..592

Seq. No.	20873	Seq. ID	OJ991117_17.0128.C10
Gene No.	43550	Strand	+
Start	1	End	2398
Name	OJ991117_17.0128.C10.o4.tm	Method	TBLASTX:Maize
Start	1118	End	1444
GI	none	Score	178
Exons	1118..1258, 1119..1442, 1352..1444		

Seq. No.	20873	Seq. ID	OJ991117_17.0128.C10
Gene No.	43550	Strand	+
Start	1	End	2398
Name	OJ991117_17.0128.C10.o3.tm	Method	TBLASTX:Maize
Start	1536	End	1729
GI	none	Score	178
Exons	1536..1712, 1580..1729		

Seq. No.	20873	Seq. ID	OJ991117_17.0128.C10
Gene No.	43550	Strand	+
Start	1	End	2398
Name	OJ991117_17.0128.C10.o1.tw	Method	TBLASTX:Wheat
Start	1658	End	2144
GI	none	Score	52
Exons	1658..2086, 1662..1712, 1767..2144		

Seq. No.	20873	Seq. ID	OJ991117_17.0128.C10
Gene No.	43550	Strand	+
Start	1	End	2398
Name	OJ991117_17.0128.C10.o1.tm	Method	TBLASTX:Maize
Start	1767	End	2198
GI	none	Score	353
Exons	1767..2198, 1806..1985, 1997..2161		

Seq. No.	20873	Seq. ID	OJ991117_17.0128.C10
Gene No.	43550	Strand	+
Start	1	End	2398
Name	OJ991117_17.0128.C10.o1.ts	Method	TBLASTX:Soybean
Start	2085	End	2398
GI	none	Score	54
Exons	2085..2123, 2121..2330, 2121..2312, 2204..2323, 2315..2398, 2320..2397		

Seq. No.	20873	Seq. ID	OJ991117_17.0128.C10
Gene No.	43550	Strand	+
Start	1	End	2398
Name	OJ991117_17.0128.C10.o3.tw	Method	TBLASTX:Wheat
Start	2193	End	2398
GI	none	Score	157
Exons	2193..2330, 2196..2312, 2204..2323, 2312..2398, 2315..2398		

Seq. No.	20873	Seq. ID	OJ991117_17.0128.C10
Gene No.	43550	Strand	+
Start	1	End	2398
Name	OJ991117_17.0128.C10.o5.tm	Method	TBLASTX:Maize
Start	2199	End	2359
GI	none	Score	163

Exons 2199..2330, 2199..2309, 2204..2326, 2312..2359

Seq. No.	20874	Seq. ID	OJ991117_17.0128.C11
Gene No.	43551	Strand	+
Start	1	End	708
Name	OJ991117_17.0128.C11.o1.np	Method	AAT/NAP
Start	1	End	708
GI	4680179	Score	870

Exons 1..708  
GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. No.	20874	Seq. ID	OJ991117_17.0128.C11
Gene No.	43551	Strand	+
Start	1	End	708
Name	OJ991117_17.0128.C11.o1.tm	Method	TBLASTX:Maize
Start	2	End	241
GI	none	Score	289

Exons 2..232, 2..241

Seq. No.	20874	Seq. ID	OJ991117_17.0128.C11
Gene No.	43551	Strand	+
Start	1	End	708
Name	OJ991117_17.0128.C11.o2.tw	Method	TBLASTX:Wheat
Start	2	End	220
GI	none	Score	309

Exons 2..220, 4..189

Seq. No.	20874	Seq. ID	OJ991117_17.0128.C11
Gene No.	43551	Strand	+
Start	1	End	708
Name	OJ991117_17.0128.C11.o1.gs	Method	GENSCAN
Start	140	End	425
GI	none	Score	.46

Exons 140..425

Seq. No.	20874	Seq. ID	OJ991117_17.0128.C11
Gene No.	43551	Strand	+
Start	1	End	708
Name	OJ991117_17.0128.C11.o1.tw	Method	TBLASTX:Wheat
Start	221	End	695
GI	none	Score	201

Exons 221..511, 307..486, 332..499, 507..695, 513..680, 515..694

Seq. No.	20874	Seq. ID	OJ991117_17.0128.C11
Gene No.	43551	Strand	+
Start	1	End	708
Name	OJ991117_17.0128.C11.o2.tm	Method	TBLASTX:Maize
Start	507	End	695
GI	none	Score	181

Exons 507..695, 525..614, 560..676

Seq. No.	20875	Seq. ID	OJ991117_17.0128.C12
Gene No.	43552	Strand	+
Start	1	End	2181
Name	OJ991117_17.0128.C12.o2.np	Method	AAT/NAP
Start	1	End	1642
GI	4680186	Score	359

Exons 1..23, 572..629, 1442..1642  
 GI Descrip. (AF111709) unknown [Oryza sativa subsp. indica]

Seq. No.	20875	Seq. ID	OJ991117_17.0128.C12
Gene No.	43552	Strand	+
Start	1	End	2181
Name	OJ991117_17.0128.C12.o1.np	Method	AAT/NAP
Start	341	End	2181
GI	6721561	Score	48
Exons	341..516, 2156..2181		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6815086 dbj BAA90372.1  (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	20875	Seq. ID	OJ991117_17.0128.C12
Gene No.	43552	Strand	+
Start	1	End	2181
Name	OJ991117_17.0128.C12.o1.gs	Method	GENSCAN
Start	455	End	2140
GI	none	Score	.64
Exons	455..585, 1292..1345, 1444..1595, 1992..2140		

Seq. No.	20875	Seq. ID	OJ991117_17.0128.C12
Gene No.	43553	Strand	-
Start	1193	End	1575
Name	OJ991117_17.0128.C12.o1.gp	Method	AAT/GAP
Start	1193	End	1575
GI	uC-osflcyp033a04b1	Score	612
Exons	1193..1575		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	20876	Seq. ID	OJ991117_17.0128.C14
Gene No.	43554	Strand	+
Start	473	End	691
Name	OJ991117_17.0128.C14.o1.np	Method	AAT/NAP
Start	473	End	691
GI	4680186	Score	317
Exons	473..691		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	20876	Seq. ID	OJ991117_17.0128.C14
Gene No.	43555	Strand	-
Start	243	End	624
Name	OJ991117_17.0128.C14.o1.gp	Method	AAT/GAP
Start	243	End	624
GI	uC-osflcyp033a04b1	Score	659
Exons	243..624		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	20877	Seq. ID	OJ991117_17.0128.C15
Gene No.	43556	Strand	+
Start	428	End	2232
Name	OJ991117_17.0128.C15.o1.gs	Method	GENSCAN

Start	428	End	2232
GI	none	Score	.54
Exons	428..449, 1164..1811, 1865..1972, 2075..2232		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
Gene No.	43557	Strand	+
Start	1	End	566
Name	OJ991117_17.0128.C16.o1.np	Method	AAT/NAP
Start	1	End	563
GI	4680179	Score	793
Exons	1..563		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
Gene No.	43557	Strand	+
Start	1	End	566
Name	OJ991117_17.0128.C16.o1.gs	Method	GENSCAN
Start	63	End	566
GI	none	Score	.55
Exons	63..566		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
Gene No.	43558	Strand	+
Start	1221	End	4334
Name	OJ991117_17.0128.C16.o2.gs	Method	GENSCAN
Start	1221	End	4334
GI	none	Score	.66
Exons	1221..1328, 1366..1569, 1623..1796, 3525..4334		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
Gene No.	43559	Strand	+
Start	4586	End	9102
Name	OJ991117_17.0128.C16.o2.np	Method	AAT/NAP
Start	4586	End	9102
GI	4680179	Score	5312
Exons	4586..5667, 5701..9102		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
Gene No.	43560	Strand	+
Start	11869	End	12250
Name	OJ991117_17.0128.C16.o2.gp	Method	AAT/GAP
Start	11869	End	12250
GI	uC-osflcyp033a04b1	Score	691
Exons	11869..12250		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
Gene No.	43561	Strand	+
Start	13805	End	16937
Name	OJ991117_17.0128.C16.o5.gs	Method	GENSCAN
Start	13805	End	16937
GI	none	Score	.76
Exons	13805..13886, 14214..14330, 14425..14471, 14507..14721, 14748..14842, 15067..15159, 15233..15356, 15744..15836, 16712..16937		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
Gene No.	43562	Strand	+
Start	28051	End	35006
Name	OJ991117_17.0128.C16.o6.np	Method	AAT/NAP
Start	28051	End	32604
GI	6063554	Score	392
Exons	28051..28097, 30748..30895, 31014..31235, 31754..31781, 32430..32604		
GI Descrip.	(AP000615) ESTs AU075609(C63344), C71850(E0464), C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
Gene No.	43562	Strand	+
Start	28051	End	35006
Name	OJ991117_17.0128.C16.o7.np	Method	AAT/NAP
Start	32254	End	34781
GI	5257279	Score	307
Exons	32254..32283, 33957..34525, 34584..34781		
GI Descrip.	(AP000364) Similar to Transposon MAGGY gag and pol gene homologues. (L35053) [Oryza sativa]		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
Gene No.	43562	Strand	+
Start	28051	End	35006
Name	OJ991117_17.0128.C16.o8.np	Method	AAT/NAP
Start	32348	End	34802
GI	1378143	Score	36
Exons	32348..32373, 34685..34802		
GI Descrip.	(U58494) Gag [Mus musculus]		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
Gene No.	43562	Strand	+
Start	28051	End	35006
Name	OJ991117_17.0128.C16.o9.gs	Method	GENSCAN
Start	32452	End	35006
GI	none	Score	.79
Exons	32452..32464, 33084..33116, 33363..33412, 33792..34479, 34579..34724, 34974..35006		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
Gene No.	43563	Strand	-
Start	10248	End	15737
Name	OJ991117_17.0128.C16.o4.gs	Method	GENSCAN
Start	10248	End	10952
GI	none	Score	1
Exons	10248..10952		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
Gene No.	43563	Strand	-
Start	10248	End	15737
Name	OJ991117_17.0128.C16.o3.np	Method	AAT/NAP
Start	10533	End	15737
GI	5852180	Score	593
Exons	10533..10945, 10997..11114, 12099..12161, 15710..15737		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
Gene No.	43564	Strand	-
Start	17348	End	17733
Name	OJ991117_17.0128.C16.o3.gp	Method	AAT/GAP
Start	17348	End	17733
GI	uC-osflcyp033a04b1	Score	653
Exons	17348..17733		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
Gene No.	43565	Strand	-
Start	24370	End	28929
Name	OJ991117_17.0128.C16.o4.np	Method	AAT/NAP
Start	24370	End	28929
GI	4680179	Score	7678
Exons	24370..28929		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
Gene No.	43566	Strand	-
Start	29184	End	29951
Name	OJ991117_17.0128.C16.o5.np	Method	AAT/NAP
Start	29184	End	29951
GI	5042448	Score	1077
Exons	29184..29951		
GI Descrip.	(AC007789) putative ORF0 protein of RIRE8B gypsy-type retrotransposon [Oryza sativa]		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
Gene No.	43567	Strand	-
Start	30521	End	31405
Name	OJ991117_17.0128.C16.o8.gs	Method	GENSCAN
Start	30521	End	31405
GI	none	Score	.86
Exons	30521..31304, 31368..31405		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
Gene No.	43568	Strand	-
Start	32973	End	34487
Name	OJ991117_17.0128.C16.o1.tw	Method	TBLASTX:Wheat
Start	3	End	25374
GI	none	Score	191
Exons	3..185, 8098..8724, 8154..8723, 24748..25374, 24749..25372		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
Gene No.	43568	Strand	-
Start	32973	End	34487
Name	OJ991117_17.0128.C16.o1.tm	Method	TBLASTX:Maize
Start	5	End	25194
GI	none	Score	363
Exons	5..61, 6..323, 57..143, 125..322, 8278..8439, 8286..8420, 8437..8877, 8439..8861, 24595..25035, 24608..25033, 25033..25194, 25040..25186		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
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Gene No.	43568	Strand	-
Start	32973	End	34487
Name	OJ991117_17.0128.C16.o6.tw	Method	TBLASTX:Wheat
Start	185	End	24747
GI	none	Score	302
Exons	185..466, 186..518, 336..497, 8724..8993, 8725..9057, 8728..9036, 24380..24433, 24415..24747, 24539..24655, 24640..24720		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
Gene No.	43568	Strand	-
Start	32973	End	34487
Name	OJ991117_17.0128.C16.o7.tm	Method	TBLASTX:Maize
Start	327	End	24591
GI	none	Score	135
Exons	327..539, 353..448, 541..573, 541..573, 8881..9078, 8892..8987, 9079..9111, 9081..9110, 24394..24591		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
Gene No.	43568	Strand	-
Start	32973	End	34487
Name	OJ991117_17.0128.C16.o7.tw	Method	TBLASTX:Wheat
Start	4819	End	34310
GI	none	Score	286
Exons	4819..5178, 4820..5179, 28307..28405, 28311..28403, 28363..28662, 33954..34310, 33963..34127, 34161..34301, 34169..34309		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
Gene No.	43568	Strand	-
Start	32973	End	34487
Name	OJ991117_17.0128.C16.o6.tm	Method	TBLASTX:Maize
Start	5063	End	34487
GI	none	Score	92
Exons	5063..5182, 5074..5166, 5182..5364, 28304..28396, 34191..34487, 34217..34378, 34419..34487		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
Gene No.	43568	Strand	-
Start	32973	End	34487
Name	OJ991117_17.0128.C16.o8.tm	Method	TBLASTX:Maize
Start	5692	End	27787
GI	none	Score	186
Exons	5692..6045, 5721..5861, 27467..27787, 27642..27734		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
Gene No.	43568	Strand	-
Start	32973	End	34487
Name	OJ991117_17.0128.C16.o8.tw	Method	TBLASTX:Wheat
Start	5727	End	27784
GI	none	Score	150
Exons	5727..5936, 5728..5937, 5982..6095, 5983..6096, 6124..6165, 27362..27553, 27369..27524, 27575..27784, 27636..27734		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
Gene No.	43568	Strand	-
Start	32973	End	34487



Name	OJ991117_17.0128.C16.o4.tw	Method	TBLASTX:Wheat
Start	6261	End	27205
GI	none	Score	534
Exons	6261..6704, 6265..6747, 26723..27205, 26732..27076, 26766..27101		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
Gene No.	43568	Strand	-
Start	32973	End	34487
Name	OJ991117_17.0128.C16.o5.tm	Method	TBLASTX:Maize
Start	6276	End	27193
GI	none	Score	321
Exons	6276..6566, 6277..6564, 26904..27095, 26906..27193		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
Gene No.	43568	Strand	-
Start	32973	End	34487
Name	OJ991117_17.0128.C16.o3.tm	Method	TBLASTX:Maize
Start	6634	End	26836
GI	none	Score	166
Exons	6634..6813, 6642..6761, 6844..7134, 6885..7013, 7041..7091, 26337..26672, 26380..26430, 26457..26585, 26684..26836		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
Gene No.	43568	Strand	-
Start	32973	End	34487
Name	OJ991117_17.0128.C16.o1.ts	Method	TBLASTX:Soybean
Start	6688	End	26782
GI	none	Score	57
Exons	6688..6720, 6690..6719, 6724..7083, 6726..6761, 6792..7082, 26388..26702, 26389..26652, 26684..26746, 26702..26746, 26738..26782, 26750..26782		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
Gene No.	43568	Strand	-
Start	32973	End	34487
Name	OJ991117_17.0128.C16.o5.tw	Method	TBLASTX:Wheat
Start	6796	End	26675
GI	none	Score	371
Exons	6796..7098, 6798..7082, 26373..26675, 26374..26655, 26573..26674		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
Gene No.	43568	Strand	-
Start	32973	End	34487
Name	OJ991117_17.0128.C16.o3.tw	Method	TBLASTX:Wheat
Start	7099	End	26372
GI	none	Score	576
Exons	7099..7521, 7128..7487, 7147..7521, 7149..7523, 25863..26372, 25947..26294, 26029..26340		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
Gene No.	43568	Strand	-
Start	32973	End	34487
Name	OJ991117_17.0128.C16.o3.ts	Method	TBLASTX:Soybean
Start	7105	End	26366
GI	none	Score	201
Exons	7105..7350, 7122..7349, 26121..26366		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
Gene No.	43568	Strand	-
Start	32973	End	34487
Name	OJ991117_17.0128.C16.o2.tm	Method	TBLASTX:Maize
Start	7170	End	26300
GI	none	Score	64
Exons	7170..7376, 7170..7472, 7171..7524, 25935..26246, 25947..26300, 26032..26298		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
Gene No.	43568	Strand	-
Start	32973	End	34487
Name	OJ991117_17.0128.C16.o2.tw	Method	TBLASTX:Wheat
Start	7524	End	25815
GI	none	Score	654
Exons	7524..8090, 7555..8091, 25381..25815, 25382..25813, 25501..25815		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
Gene No.	43568	Strand	-
Start	32973	End	34487
Name	OJ991117_17.0128.C16.o1.tc	Method	TBLASTX:Cress
Start	7798	End	25674
GI	none	Score	90
Exons	7798..7971, 7972..8115, 7974..8114, 25357..25500, 25358..25498, 25501..25674		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
Gene No.	43568	Strand	-
Start	32973	End	34487
Name	OJ991117_17.0128.C16.o2.ts	Method	TBLASTX:Soybean
Start	7879	End	25593
GI	none	Score	296
Exons	7879..8139, 7884..8138, 25333..25593, 25334..25588		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
Gene No.	43568	Strand	-
Start	32973	End	34487
Name	OJ991117_17.0128.C16.o4.tm	Method	TBLASTX:Maize
Start	7937	End	25534
GI	none	Score	96
Exons	7937..8104, 7938..8225, 7939..8229, 25243..25533, 25247..25534		

Seq. No.	20878	Seq. ID	OJ991117_17.0128.C16
Gene No.	43568	Strand	-
Start	32973	End	34487
Name	OJ991117_17.0128.C16.o5.gp	Method	AAT/GAP
Start	32973	End	33252
GI	61605_3.R1084	Score	343
Exons	32973..33252		
GI Descrip.	'1402920/emb CAA66965  2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	20879	Seq. ID	OJ991117_17.0128.C17
Gene No.	43569	Strand	-
Start	20	End	1286
Name	OJ991117_17.0128.C17.o1.gs	Method	GENSCAN
Start	20	End	1286

GI	none	Score	.81
Exons	20..360, 401..1286		
Seq. No.	20879	Seq. ID	OJ991117_17.0128.C17
Gene No.	43569	Strand	-
Start	20	End	1286
Name	OJ991117_17.0128.C17.o1.np	Method	AAT/NAP
Start	29	End	361
GI	5852180	Score	141
Exons	29..361		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	20879	Seq. ID	OJ991117_17.0128.C17
Gene No.	43569	Strand	-
Start	20	End	1286
Name	OJ991117_17.0128.C17.o2.np	Method	AAT/NAP
Start	345	End	1220
GI	5042448	Score	1287
Exons	345..1220		
GI Descrip.	(AC007789) putative ORF0 protein of RIRE8B gypsy-type retrotransposon [Oryza sativa]		

Seq. No.	20880	Seq. ID	OJ991117_17.0128.C18
Gene No.	43570	Strand	+
Start	179	End	444
Name	OJ991117_17.0128.C18.o1.gs	Method	GENSCAN
Start	179	End	444
GI	none	Score	.48
Exons	179..444		

Seq. No.	20880	Seq. ID	OJ991117_17.0128.C18
Gene No.	43571	Strand	-
Start	1	End	249
Name	OJ991117_17.0128.C18.o1.np	Method	AAT/NAP
Start	1	End	249
GI	2864621	Score	72
Exons	1..249		
GI Descrip.	(AL021811) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	20881	Seq. ID	OJ991117_17.0128.C19
Gene No.	43572	Strand	+
Start	1	End	660
Name	OJ991117_17.0128.C19.o1.np	Method	AAT/NAP
Start	1	End	660
GI	4680179	Score	890
Exons	1..660		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	20881	Seq. ID	OJ991117_17.0128.C19
Gene No.	43572	Strand	+
Start	1	End	660
Name	OJ991117_17.0128.C19.o1.tw	Method	TBLASTX:Wheat
Start	36	End	575
GI	none	Score	624
Exons	36..575, 200..571		

Seq. No.	20881	Seq. ID	OJ991117_17.0128.C19
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Gene No. 43572  
 Start 1  
 Name OJ991117\_17.0128.C19.o1.gs  
 Start 115  
 GI none  
 Exons 115..513

Strand +  
 End 660  
 Method GENSCAN  
 End 513  
 Score .43

Seq. No. 20881  
 Gene No. 43572  
 Start 1  
 Name OJ991117\_17.0128.C19.o1.tc  
 Start 273  
 GI none  
 Exons 273..455, 456..599, 458..598

Seq. ID OJ991117\_17.0128.C19  
 Strand +  
 End 660  
 Method TBLASTX:Cress  
 End 599  
 Score 88

Seq. No. 20881  
 Gene No. 43572  
 Start 1  
 Name OJ991117\_17.0128.C19.o1.ts  
 Start 363  
 GI none  
 Exons 363..623, 374..622

Seq. ID OJ991117\_17.0128.C19  
 Strand +  
 End 660  
 Method TBLASTX:Soybean  
 End 623  
 Score 288

Seq. No. 20881  
 Gene No. 43572  
 Start 1  
 Name OJ991117\_17.0128.C19.o1.tm  
 Start 384  
 GI none  
 Exons 384..608, 387..641, 389..622

Seq. ID OJ991117\_17.0128.C19  
 Strand +  
 End 660  
 Method TBLASTX:Maize  
 End 641  
 Score 368

Seq. No. 20882  
 Gene No. 43573  
 Start 1  
 Name OJ991117\_17.0128.C20.o1.np  
 Start 1  
 GI 3915757  
 Exons 1..345

Seq. ID OJ991117\_17.0128.C20  
 Strand +  
 End 348  
 Method AAT/NAP  
 End 345  
 Score 396

GI Descrip. BENZOYLFORMATE DECARBOXYLASE (BFD) (BFDC) gi|3318766|pdb|1BFD|  
 Benzoylformate Decarboxylase From Pseudomonas Putida gi|3093419  
 (J05293) benzoylformate decarboxylase [Pseudomonas putida]

Seq. No. 20882  
 Gene No. 43573  
 Start 1  
 Name OJ991117\_17.0128.C20.o1.gs  
 Start 81  
 GI none  
 Exons 81..348

Seq. ID OJ991117\_17.0128.C20  
 Strand +  
 End 348  
 Method GENSCAN  
 End 348  
 Score .79

Seq. No. 20883  
 Gene No. 43574  
 Start 1  
 Name OJ991117\_17.0128.C21.o1.np  
 Start 1  
 GI 5257279  
 Exons 1..438, 787..1021, 1093..1120

Seq. ID OJ991117\_17.0128.C21  
 Strand +  
 End 1120  
 Method AAT/NAP  
 End 1120  
 Score 1004

GI Descrip. (AP000364) Similar to Transposon MAGGY gag and pol gene homologues. (L35053) [Oryza sativa]

Seq. No.	20883	Seq. ID	OJ991117_17.0128.C21
Gene No.	43574	Strand	+
Start	1	End	1120
Name	OJ991117_17.0128.C21.o1.gs	Method	GENSCAN
Start	94	End	1085
GI	none	Score	.57
Exons	94..348, 460..679, 787..1085		

Seq. No.	20884	Seq. ID	OJ991117_17.0128.C22
Gene No.	43575	Strand	+
Start	1	End	3190
Name	OJ991117_17.0128.C22.o1.np	Method	AAT/NAP
Start	1	End	3190
GI	5257279	Score	4434
Exons	1..2672, 2889..3051, 3166..3190		
GI Descrip.	(AP000364) Similar to Transposon MAGGY gag and pol gene homologues. (L35053) [Oryza sativa]		

Seq. No.	20884	Seq. ID	OJ991117_17.0128.C22
Gene No.	43575	Strand	+
Start	1	End	3190
Name	OJ991117_17.0128.C22.o6.tw	Method	TBLASTX:Wheat
Start	114	End	413
GI	none	Score	187
Exons	114..413, 131..307, 147..308		

Seq. No.	20884	Seq. ID	OJ991117_17.0128.C22
Gene No.	43575	Strand	+
Start	1	End	3190
Name	OJ991117_17.0128.C22.o5.tm	Method	TBLASTX:Maize
Start	780	End	1103
GI	none	Score	199
Exons	780..1103, 827..904		

Seq. No.	20884	Seq. ID	OJ991117_17.0128.C22
Gene No.	43575	Strand	+
Start	1	End	3190
Name	OJ991117_17.0128.C22.o5.tw	Method	TBLASTX:Wheat
Start	786	End	1163
GI	none	Score	142
Exons	786..1007, 836..907, 873..953, 1041..1163, 1041..1157, 1052..1162		

Seq. No.	20884	Seq. ID	OJ991117_17.0128.C22
Gene No.	43575	Strand	+
Start	1	End	3190
Name	OJ991117_17.0128.C22.o6.tm	Method	TBLASTX:Maize
Start	1238	End	1400
GI	none	Score	181
Exons	1238..1399, 1239..1400		

Seq. No.	20884	Seq. ID	OJ991117_17.0128.C22
Gene No.	43575	Strand	+
Start	1	End	3190

Name	OJ991117_17.0128.C22.o3.tw	Method	TBLASTX:Wheat
Start	1335	End	1817
GI	none	Score	543
Exons	1335..1817, 1346..1642, 1395..1784, 1670..1813		
Seq. No.	20884	Seq. ID	OJ991117_17.0128.C22
Gene No.	43575	Strand	+
Start	1	End	3190
Name	OJ991117_17.0128.C22.o2.tm	Method	TBLASTX:Maize
Start	1401	End	1871
GI	none	Score	401
Exons	1401..1871, 1475..1648		
Seq. No.	20884	Seq. ID	OJ991117_17.0128.C22
Gene No.	43575	Strand	+
Start	1	End	3190
Name	OJ991117_17.0128.C22.o1.ts	Method	TBLASTX:Soybean
Start	1758	End	2153
GI	none	Score	54
Exons	1758..1790, 1788..2123, 1794..2153, 1796..2152		
Seq. No.	20884	Seq. ID	OJ991117_17.0128.C22
Gene No.	43575	Strand	+
Start	1	End	3190
Name	OJ991117_17.0128.C22.o4.tw	Method	TBLASTX:Wheat
Start	1866	End	2168
GI	none	Score	393
Exons	1866..2168, 1866..2102, 1868..2152		
Seq. No.	20884	Seq. ID	OJ991117_17.0128.C22
Gene No.	43575	Strand	+
Start	1	End	3190
Name	OJ991117_17.0128.C22.o3.tm	Method	TBLASTX:Maize
Start	1887	End	2234
GI	none	Score	318
Exons	1887..2234, 1889..2155		
Seq. No.	20884	Seq. ID	OJ991117_17.0128.C22
Gene No.	43575	Strand	+
Start	1	End	3190
Name	OJ991117_17.0128.C22.o1.tw	Method	TBLASTX:Wheat
Start	2169	End	2666
GI	none	Score	624
Exons	2169..2666, 2178..2513, 2204..2590		
Seq. No.	20884	Seq. ID	OJ991117_17.0128.C22
Gene No.	43575	Strand	+
Start	1	End	3190
Name	OJ991117_17.0128.C22.o3.ts	Method	TBLASTX:Soybean
Start	2175	End	2420
GI	none	Score	202
Exons	2175..2420		
Seq. No.	20884	Seq. ID	OJ991117_17.0128.C22
Gene No.	43575	Strand	+
Start	1	End	3190
Name	OJ991117_17.0128.C22.o1.tm	Method	TBLASTX:Maize

Start	2241	End	2594
GI	none	Score	459
Exons	2241..2594, 2243..2509, 2244..2510		

Seq. No.	20884	Seq. ID	OJ991117_17.0128.C22
Gene No.	43575	Strand	+
Start	1	End	3190
Name	OJ991117_17.0128.C22.o2.tw	Method	TBLASTX:Wheat
Start	2669	End	3161
GI	none	Score	578
Exons	2669..3157, 2670..3161, 2811..3158		

Seq. No.	20884	Seq. ID	OJ991117_17.0128.C22
Gene No.	43575	Strand	+
Start	1	End	3190
Name	OJ991117_17.0128.C22.o1.tc	Method	TBLASTX:Cress
Start	2868	End	3185
GI	none	Score	109
Exons	2868..3041, 2876..2989, 3042..3185, 3044..3184		

Seq. No.	20884	Seq. ID	OJ991117_17.0128.C22
Gene No.	43575	Strand	+
Start	1	End	3190
Name	OJ991117_17.0128.C22.o4.tm	Method	TBLASTX:Maize
Start	2952	End	3185
GI	none	Score	299
Exons	2952..3185, 2960..3166		

Seq. No.	20884	Seq. ID	OJ991117_17.0128.C22
Gene No.	43575	Strand	+
Start	1	End	3190
Name	OJ991117_17.0128.C22.o2.ts	Method	TBLASTX:Soybean
Start	2960	End	3185
GI	none	Score	249
Exons	2960..3175, 2961..3185, 2973..3185		

Seq. No.	20885	Seq. ID	OJ991117_17.0128.C23
Gene No.	43576	Strand	+
Start	1	End	2136
Name	OJ991117_17.0128.C23.o1.np	Method	AAT/NAP
Start	1	End	425
GI	4680179	Score	435
Exons	1..425		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	20885	Seq. ID	OJ991117_17.0128.C23
Gene No.	43576	Strand	+
Start	1	End	2136
Name	OJ991117_17.0128.C23.o1.gs	Method	GENSCAN
Start	9	End	2106
GI	none	Score	.75
Exons	9..297, 978..1048, 1103..1172, 1481..2106		

Seq. No.	20885	Seq. ID	OJ991117_17.0128.C23
Gene No.	43576	Strand	+
Start	1	End	2136
Name	OJ991117_17.0128.C23.o2.np	Method	AAT/NAP

Start	1438	End	2136
GI	6498441	Score	817
Exons	1438..1761, 1855..2136		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	20885	Seq. ID	OJ991117_17.0128.C23
Gene No.	43577	Strand	+
Start	4503	End	4884
Name	OJ991117_17.0128.C23.o2.gp	Method	AAT/GAP
Start	4503	End	4884
GI	uC-osflcyp033a04b1	Score	667
Exons	4503..4884		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	20885	Seq. ID	OJ991117_17.0128.C23
Gene No.	43578	Strand	-
Start	3588	End	5717
Name	OJ991117_17.0128.C23.o1.tw	Method	TBLASTX:Wheat
Start	3	End	380
GI	none	Score	388
Exons	3..380, 5..184, 204..380		

Seq. No.	20885	Seq. ID	OJ991117_17.0128.C23
Gene No.	43578	Strand	-
Start	3588	End	5717
Name	OJ991117_17.0128.C23.o1.tm	Method	TBLASTX:Maize
Start	95	End	368
GI	none	Score	284
Exons	95..316, 96..368		

Seq. No.	20885	Seq. ID	OJ991117_17.0128.C23
Gene No.	43578	Strand	-
Start	3588	End	5717
Name	OJ991117_17.0128.C23.o2.tw	Method	TBLASTX:Wheat
Start	1518	End	2127
GI	none	Score	97
Exons	1518..1745, 1519..1971, 1529..1567, 1551..1628, 1698..1799, 2002..2127		

Seq. No.	20885	Seq. ID	OJ991117_17.0128.C23
Gene No.	43578	Strand	-
Start	3588	End	5717
Name	OJ991117_17.0128.C23.o2.tm	Method	TBLASTX:Maize
Start	1741	End	2004
GI	none	Score	187
Exons	1741..2004		

Seq. No.	20885	Seq. ID	OJ991117_17.0128.C23
Gene No.	43578	Strand	-
Start	3588	End	5717
Name	OJ991117_17.0128.C23.o3.np	Method	AAT/NAP
Start	3588	End	5717
GI	6063554	Score	115
Exons	3588..3759, 5684..5717		



GI Descrip. (AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No.	20885	Seq. ID	OJ991117_17.0128.C23
Gene No.	43578	Strand	-
Start	3588	End	5717
Name	OJ991117_17.0128.C23.o4.np	Method	AAT/NAP
Start	4436	End	5526
GI	4680186	Score	352
Exons	4436..4636, 5475..5526		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	20886	Seq. ID	OJ991117_17.0128.C24
Gene No.	43579	Strand	+
Start	1	End	906
Name	OJ991117_17.0128.C24.o1.np	Method	AAT/NAP
Start	1	End	906
GI	4680179	Score	1217
Exons	1..906		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	20886	Seq. ID	OJ991117_17.0128.C24
Gene No.	43579	Strand	+
Start	1	End	906
Name	OJ991117_17.0128.C24.o1.gs	Method	GENSCAN
Start	113	End	690
GI	none	Score	.55
Exons	113..194, 270..690		

Seq. No.	20886	Seq. ID	OJ991117_17.0128.C24
Gene No.	43580	Strand	-
Start	1495	End	1780
Name	OJ991117_17.0128.C24.o1.tw	Method	TBLASTX:Wheat
Start	3	End	528
GI	none	Score	64
Exons	3..77, 47..268, 89..241, 274..528, 276..416		

Seq. No.	20886	Seq. ID	OJ991117_17.0128.C24
Gene No.	43580	Strand	-
Start	1495	End	1780
Name	OJ991117_17.0128.C24.o1.tm	Method	TBLASTX:Maize
Start	80	End	681
GI	none	Score	222
Exons	80..241, 88..234, 239..271, 270..665, 271..681		

Seq. No.	20886	Seq. ID	OJ991117_17.0128.C24
Gene No.	43580	Strand	-
Start	1495	End	1780
Name	OJ991117_17.0128.C24.o2.tw	Method	TBLASTX:Wheat
Start	528	End	861
GI	none	Score	296
Exons	528..797, 529..861, 541..840		

Seq. No.	20886	Seq. ID	OJ991117_17.0128.C24
Gene No.	43580	Strand	-
Start	1495	End	1780

Name	OJ991117_17.0128.C24.o2.np	Method	AAT/NAP
Start	1495	End	1780
GI	4680185	Score	306
Exons	1495..1780		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	20887	Seq. ID	OJ991007_18.0120.C1
Gene No.	43581	Strand	-
Start	4265	End	4808
Name	OJ991007_18.0120.C1.o1.np	Method	AAT/NAP
Start	4265	End	4808
GI	4415918	Score	482
Exons	4265..4808		
GI Descrip.	(AC006282) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	20887	Seq. ID	OJ991007_18.0120.C1
Gene No.	43581	Strand	-
Start	4265	End	4808
Name	OJ991007_18.0120.C1.o1.tm	Method	TBLASTX:Maize
Start	4290	End	4808
GI	none	Score	114
Exons	4290..4538, 4582..4806, 4590..4808		

Seq. No.	20887	Seq. ID	OJ991007_18.0120.C1
Gene No.	43581	Strand	-
Start	4265	End	4808
Name	OJ991007_18.0120.C1.o1.ts	Method	TBLASTX:Soybean
Start	4299	End	4796
GI	none	Score	73
Exons	4299..4565, 4339..4470, 4575..4796		

Seq. No.	20887	Seq. ID	OJ991007_18.0120.C1
Gene No.	43581	Strand	-
Start	4265	End	4808
Name	OJ991007_18.0120.C1.o1.tc	Method	TBLASTX:Cress
Start	4389	End	4739
GI	none	Score	64
Exons	4389..4523, 4390..4509, 4581..4739, 4599..4676		

Seq. No.	20888	Seq. ID	OJ991007_18.0120.C2
Gene No.	43582	Strand	+
Start	1	End	1969
Name	OJ991007_18.0120.C2.o2.np	Method	AAT/NAP
Start	1	End	1969
GI	6006372	Score	90
Exons	1..33, 1724..1969		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	20888	Seq. ID	OJ991007_18.0120.C2
Gene No.	43582	Strand	+
Start	1	End	1969
Name	OJ991007_18.0120.C2.o1.gs	Method	GENSCAN
Start	58	End	507
GI	none	Score	.68
Exons	58..507		

Seq. No.	20888	Seq. ID	OJ991007_18.0120.C2
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Gene No. 43582  
 Start 1  
 Name OJ991007\_18.0120.C2.o2.gs  
 Start 1673  
 GI none  
 Exons 1673..1837

Strand +  
 End 1969  
 Method GENSCAN  
 End 1837  
 Score .86

Seq. No. 20888  
 Gene No. 43583  
 Start 185  
 Name OJ991007\_18.0120.C2.o1.gp  
 Start 185  
 GI 2442808  
 Exons 185..464

Seq. ID OJ991007\_18.0120.C2  
 Strand -  
 End 464  
 Method AAT/GAP  
 End 464  
 Score 456

Seq. No. 20888  
 Gene No. 43584  
 Start 646  
 Name OJ991007\_18.0120.C2.o1.np  
 Start 646  
 GI 6006372  
 Exons 646..904, 2025..2058  
 GI Descrip. (AP000559) hypothetical protein [Oryza sativa]

Seq. ID OJ991007\_18.0120.C2  
 Strand -  
 End 2058  
 Method AAT/NAP  
 End 2058  
 Score 108

Seq. No. 20889  
 Gene No. 43585  
 Start 440  
 Name OJ991007\_18.0120.C3.o1.gs  
 Start 440  
 GI none  
 Exons 440..524, 1726..2004, 2216..2297

Seq. ID OJ991007\_18.0120.C3  
 Strand +  
 End 2297  
 Method GENSCAN  
 End 2297  
 Score .95

Seq. No. 20889  
 Gene No. 43586  
 Start 4462  
 Name OJ991007\_18.0120.C3.o2.gs  
 Start 4462  
 GI none  
 Exons 4462..4626, 6207..6305

Seq. ID OJ991007\_18.0120.C3  
 Strand +  
 End 6305  
 Method GENSCAN  
 End 6305  
 Score .7

Seq. No. 20889  
 Gene No. 43587  
 Start 8761  
 Name OJ991007\_18.0120.C3.o1.np  
 Start 8761  
 GI 4539351  
 Exons 8761..8962  
 GI Descrip. (AL035539) putative protein [Arabidopsis thaliana]

Seq. ID OJ991007\_18.0120.C3  
 Strand +  
 End 8962  
 Method AAT/NAP  
 End 8962  
 Score 74

Seq. No. 20889  
 Gene No. 43588  
 Start 9970  
 Name OJ991007\_18.0120.C3.o2.np  
 Start 9970  
 GI 6636362  
 Exons 9970..10050, 11085..11177, 11227..11650, 11990..12041, 12889..12921

Seq. ID OJ991007\_18.0120.C3  
 Strand +  
 End 12921  
 Method AAT/NAP  
 End 12921  
 Score 121

GI Descrip. (AF215665) S-adenosyl-L-methionine decarboxylase [Brassica juncea]

Seq. No.	20889	Seq. ID	OJ991007_18.0120.C3
Gene No.	43589	Strand	-
Start	2445	End	3723
Name	OJ991007_18.0120.C3.o1.gp	Method	AAT/GAP
Start	2445	End	3723
GI	none	Score	1067
Exons	2445..2791, 3375..3445, 3554..3723		

Seq. No.	20890	Seq. ID	OJ991007_18.0120.C4
Gene No.	43590	Strand	+
Start	181	End	990
Name	OJ991007_18.0120.C4.o1.gs	Method	GENSCAN
Start	181	End	844
GI	none	Score	.92
Exons	181..250, 429..584, 765..844		

Seq. No.	20890	Seq. ID	OJ991007_18.0120.C4
Gene No.	43590	Strand	+
Start	181	End	990
Name	OJ991007_18.0120.C4.o1.gp	Method	AAT/GAP
Start	189	End	573
GI	286527	Score	386
Exons	189..250, 361..573		

Seq. No.	20890	Seq. ID	OJ991007_18.0120.C4
Gene No.	43590	Strand	+
Start	181	End	990
Name	OJ991007_18.0120.C4.o2.gp	Method	AAT/GAP
Start	718	End	990
GI	3760798	Score	450
Exons	718..990		

Seq. No.	20890	Seq. ID	OJ991007_18.0120.C4
Gene No.	43591	Strand	+
Start	14105	End	14346
Name	OJ991007_18.0120.C4.o3.gp	Method	AAT/GAP
Start	14105	End	14346
GI	568856	Score	418
Exons	14105..14346		

Seq. No.	20890	Seq. ID	OJ991007_18.0120.C4
Gene No.	43592	Strand	+
Start	17532	End	22188
Name	OJ991007_18.0120.C4.o5.gs	Method	GENSCAN
Start	17532	End	22188
GI	none	Score	.93
Exons	17532..17669, 17972..18034, 18442..18530, 18618..18821, 19135..19390, 19490..19717, 19793..19990, 21577..22188		

Seq. No.	20890	Seq. ID	OJ991007_18.0120.C4
Gene No.	43592	Strand	+
Start	17532	End	22188
Name	OJ991007_18.0120.C4.o1.np	Method	AAT/NAP
Start	18249	End	20280

GI 4220537 Score 1399  
 Exons 18249..18341, 18442..18530, 18618..18821, 19135..19390,  
 19490..19717, 19793..19990, 20071..20280  
 GI Descrip. (AL035356) PsRT17-1 like protein [Arabidopsis thaliana]

Seq. No. 20890 Seq. ID OJ991007\_18.0120.C4  
 Gene No. 43592 Strand +  
 Start 17532 End 22188  
 Name OJ991007\_18.0120.C4.o4.gp Method AAT/GAP  
 Start 19516 End 20283  
 GI LIB3434-044-P1-K1-E11 Score 1155  
 Exons 19516..19717, 19793..19990, 20071..20283  
 GI Descrip. '4220537/emb|CAA23010| 3.0e-88 (AL035356) PsRT17-1 like protein  
 [Arabidopsis thaliana]'

Seq. No. 20890 Seq. ID OJ991007\_18.0120.C4  
 Gene No. 43592 Strand +  
 Start 17532 End 22188  
 Name OJ991007\_18.0120.C4.o2.np Method AAT/NAP  
 Start 21730 End 22182  
 GI 3551838 Score 463  
 Exons 21730..22182  
 GI Descrip. (AF070967) SKP1-like protein [Nicotiana clevelandii]

Seq. No. 20890 Seq. ID OJ991007\_18.0120.C4  
 Gene No. 43593 Strand +  
 Start 31330 End 33872  
 Name OJ991007\_18.0120.C4.o8.gs Method GENSCAN  
 Start 31330 End 32398  
 GI none Score .98  
 Exons 31330..31549, 31638..31969, 32072..32398

Seq. No. 20890 Seq. ID OJ991007\_18.0120.C4  
 Gene No. 43593 Strand +  
 Start 31330 End 33872  
 Name OJ991007\_18.0120.C4.o4.np Method AAT/NAP  
 Start 31344 End 33872  
 GI 6223650 Score 335  
 Exons 31344..31553, 31673..31957, 32074..32117, 33776..33872  
 GI Descrip. (AC011698) NAM-like protein (no apical meristem) [Arabidopsis  
 thaliana]

Seq. No. 20890 Seq. ID OJ991007\_18.0120.C4  
 Gene No. 43594 Strand +  
 Start 34249 End 34489  
 Name OJ991007\_18.0120.C4.o5.gp Method AAT/GAP  
 Start 34249 End 34489  
 GI LIB3477-003-P1-K1-E9 Score 116  
 Exons 34249..34322, 34450..34489  
 GI Descrip. '2498586/sp|Q40638|MP01\_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY  
 S 1 PRECURSOR (ORY S I) >gi\_1173557 (U31771) Ory s 1 [Oryza  
 sativa]'

Seq. No. 20890 Seq. ID OJ991007\_18.0120.C4  
 Gene No. 43595 Strand +  
 Start 37167 End 42715  
 Name OJ991007\_18.0120.C4.o6.gp Method AAT/GAP

Start 37071 End 39439  
 GI 11985\_1.R1084 Score 1528  
 Exons 37071..37317, 37637..37746, 38720..38862, 39136..39439  
 GI Descrip. '5453902/ref|NP\_006214.1|pPIN4| 2.0e-18 protein (peptidyl-prolyl  
 cis/trans isomerase) NIMA-interacting, 4 (parvulin)  
 >gi\_4689436\_gb\_AAD27893.1\_AF143096\_1 (AF143096) peptidyl-prolyl  
 cis-trans isomerase EPVH [Homo sapiens]  
 >gi\_5420453\_dbj\_BAA82320.1\_ (AB009690) parvulin [Homo sapiens]'

Seq. No. 20890 Seq. ID OJ991007\_18.0120.C4  
 Gene No. 43595 Strand +  
 Start 37167 End 42715  
 Name OJ991007\_18.0120.C4.o5.np Method AAT/NAP  
 Start 37163 End 39172  
 GI 5453902 Score 162  
 Exons 37163..37272, 37631..37714, 38718..38876, 39132..39172  
 GI Descrip. protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting,  
 4 (parvulin) gi|4689436|gb|AAD27893.1|AF143096\_1 (AF143096)  
 peptidyl-prolyl cis-trans isomerase EPVH [Homo sapiens]  
 gi|5420453|dbj|BAA82320.1| (AB009690) parvulin [Homo sapiens]

Seq. No. 20890 Seq. ID OJ991007\_18.0120.C4  
 Gene No. 43595 Strand +  
 Start 37167 End 42715  
 Name OJ991007\_18.0120.C4.o10.gs Method GENSCAN  
 Start 37167 End 42715  
 GI none Score .77  
 Exons 37167..37377, 37637..37746, 38720..38830, 40438..41024,  
 41171..41199, 41318..41529, 41783..41905, 42006..42410,  
 42503..42715

Seq. No. 20890 Seq. ID OJ991007\_18.0120.C4  
 Gene No. 43595 Strand +  
 Start 37167 End 42715  
 Name OJ991007\_18.0120.C4.o6.np Method AAT/NAP  
 Start 40520 End 42715  
 GI 1731475 Score 1237  
 Exons 40520..41024, 41171..41199, 41318..41529, 41783..41905,  
 42006..42410, 42503..42715  
 GI Descrip. (U35619) ribulose-1,5 biphosphate carboxylase/oxygenase large  
 subunit N-methyltransferase [Nicotiana tabacum] gi|1731477  
 (U35620) ribulose-1,5 biphosphate carboxylase/oxygenase large  
 subunit N-methyltransferase [Nicotiana tabacum]

Seq. No. 20890 Seq. ID OJ991007\_18.0120.C4  
 Gene No. 43596 Strand -  
 Start 23948 End 29171  
 Name OJ991007\_18.0120.C4.o6.gs Method GENSCAN  
 Start 23948 End 25898  
 GI none Score .81  
 Exons 23948..24166, 24242..24530, 25849..25898

Seq. No. 20890 Seq. ID OJ991007\_18.0120.C4  
 Gene No. 43596 Strand -  
 Start 23948 End 29171  
 Name OJ991007\_18.0120.C4.o3.np Method AAT/NAP  
 Start 24959 End 28197

GI 5852093 Score 81  
 Exons 24959..25042, 26683..26818, 27923..28042, 28105..28197  
 GI Descrip. (AL117264) zwh16.1 [Oryza sativa]

Seq. No. 20890 Seq. ID OJ991007\_18.0120.C4  
 Gene No. 43596 Strand -  
 Start 23948 End 29171  
 Name OJ991007\_18.0120.C4.o7.gs Method GENSCAN  
 Start 26853 End 29171  
 GI none Score .78  
 Exons 26853..27125, 27151..27412, 28427..28510, 29161..29171

Seq. No. 20890 Seq. ID OJ991007\_18.0120.C4  
 Gene No. 43597 Strand -  
 Start 33087 End 33351  
 Name OJ991007\_18.0120.C4.o5.tm Method TBLASTX:Maize  
 Start 17954 End 18507  
 GI none Score 99  
 Exons 17954..18031, 17965..18030, 17970..18035, 17972..18049,  
 18093..18188, 18109..18189, 18116..18178, 18273..18362,  
 18275..18340, 18276..18350, 18441..18506, 18442..18504,  
 18442..18507

Seq. No. 20890 Seq. ID OJ991007\_18.0120.C4  
 Gene No. 43597 Strand -  
 Start 33087 End 33351  
 Name OJ991007\_18.0120.C4.o1.ts Method TBLASTX:Soybean  
 Start 18116 End 20286  
 GI none Score 71  
 Exons 18116..18163, 18117..18179, 18227..18340, 18273..18344,  
 18285..18350, 18441..18548, 18442..18528, 18652..18825,  
 18663..18815, 19132..19299, 19133..19297, 19339..19419,  
 19352..19390, 19473..19718, 19487..19720, 19489..19719,  
 19789..19992, 19790..19993, 20071..20280, 20079..20270,  
 20098..20286

Seq. No. 20890 Seq. ID OJ991007\_18.0120.C4  
 Gene No. 43597 Strand -  
 Start 33087 End 33351  
 Name OJ991007\_18.0120.C4.o6.tm Method TBLASTX:Maize  
 Start 18750 End 19305  
 GI none Score 91  
 Exons 18750..18824, 18751..18825, 18751..18819, 18752..18829,  
 19132..19299, 19133..19303, 19134..19304, 19243..19305

Seq. No. 20890 Seq. ID OJ991007\_18.0120.C4  
 Gene No. 43597 Strand -  
 Start 33087 End 33351  
 Name OJ991007\_18.0120.C4.o1.tc Method TBLASTX:Cress  
 Start 19220 End 20271  
 GI none Score 92  
 Exons 19220..19297, 19225..19296, 19349..19390, 19354..19419,  
 19487..19720, 19489..19719, 19789..19992, 19790..19993,  
 19790..19996, 20071..20271, 20076..20270

Seq. No. 20890 Seq. ID OJ991007\_18.0120.C4  
 Gene No. 43597 Strand -

Start	33087	End	33351
Name	OJ991007_18.0120.C4.o1.tm	Method	TBLASTX:Maize
Start	19310	End	19855
GI	none	Score	79
Exons	19310..19390, 19336..19392, 19340..19390, 19487..19720, 19489..19719, 19789..19845, 19790..19855		

Seq. No.	20890	Seq. ID	OJ991007_18.0120.C4
Gene No.	43597	Strand	-
Start	33087	End	33351
Name	OJ991007_18.0120.C4.o2.tm	Method	TBLASTX:Maize
Start	19894	End	20292
GI	none	Score	166
Exons	19894..19992, 19895..19993, 19898..19996, 19899..19997, 20066..20275, 20071..20292, 20073..20279		

Seq. No.	20890	Seq. ID	OJ991007_18.0120.C4
Gene No.	43597	Strand	-
Start	33087	End	33351
Name	OJ991007_18.0120.C4.o3.tm	Method	TBLASTX:Maize
Start	21733	End	22182
GI	none	Score	199
Exons	21733..21822, 21735..21887, 21736..21909, 21943..22182, 21978..22025, 22074..22178		

Seq. No.	20890	Seq. ID	OJ991007_18.0120.C4
Gene No.	43597	Strand	-
Start	33087	End	33351
Name	OJ991007_18.0120.C4.o2.tc	Method	TBLASTX:Cress
Start	21738	End	22182
GI	none	Score	203
Exons	21738..21887, 21739..21963, 21943..22182, 22074..22178		

Seq. No.	20890	Seq. ID	OJ991007_18.0120.C4
Gene No.	43597	Strand	-
Start	33087	End	33351
Name	OJ991007_18.0120.C4.o3.ts	Method	TBLASTX:Soybean
Start	21739	End	22182
GI	none	Score	53
Exons	21739..21792, 21739..21792, 21771..21887, 21772..21909, 21943..22182, 21978..22178		

Seq. No.	20890	Seq. ID	OJ991007_18.0120.C4
Gene No.	43597	Strand	-
Start	33087	End	33351
Name	OJ991007_18.0120.C4.o2.tw	Method	TBLASTX:Wheat
Start	21838	End	22134
GI	none	Score	83
Exons	21838..21990, 21949..22134, 21970..22128		

Seq. No.	20890	Seq. ID	OJ991007_18.0120.C4
Gene No.	43597	Strand	-
Start	33087	End	33351
Name	OJ991007_18.0120.C4.o4.ts	Method	TBLASTX:Soybean
Start	31392	End	31906
GI	none	Score	154
Exons	31392..31469, 31396..31533, 31685..31786, 31687..31782,		



31819..31902, 31820..31906

Seq. No.	20890	Seq. ID	OJ991007_18.0120.C4
Gene No.	43597	Strand	-
Start	33087	End	33351
Name	OJ991007_18.0120.C4.o4.tc	Method	TBLASTX:Cress
Start	31396	End	31906
GI	none	Score	149
Exons	31396..31533, 31684..31782, 31685..31786, 31819..31905, 31820..31906		

Seq. No.	20890	Seq. ID	OJ991007_18.0120.C4
Gene No.	43597	Strand	-
Start	33087	End	33351
Name	OJ991007_18.0120.C4.o8.tm	Method	TBLASTX:Maize
Start	31396	End	31918
GI	none	Score	142
Exons	31396..31533, 31685..31786, 31819..31899, 31820..31918		

Seq. No.	20890	Seq. ID	OJ991007_18.0120.C4
Gene No.	43597	Strand	-
Start	33087	End	33351
Name	OJ991007_18.0120.C4.o1.tw	Method	TBLASTX:Wheat
Start	31685	End	31915
GI	none	Score	119
Exons	31685..31792, 31687..31788, 31813..31914, 31814..31915		

Seq. No.	20890	Seq. ID	OJ991007_18.0120.C4
Gene No.	43597	Strand	-
Start	33087	End	33351
Name	OJ991007_18.0120.C4.o9.gs	Method	GENSCAN
Start	33087	End	33351
GI	none	Score	.48
Exons	33087..33212, 33283..33351		

Seq. No.	20890	Seq. ID	OJ991007_18.0120.C4
Gene No.	43598	Strand	-
Start	37624	End	39228
Name	OJ991007_18.0120.C4.o3.tc	Method	TBLASTX:Cress
Start	37624	End	39184
GI	none	Score	202
Exons	37624..37752, 37635..37745, 38717..38881, 38719..38883, 38719..38880, 38732..38881, 39125..39184, 39127..39177		

Seq. No.	20890	Seq. ID	OJ991007_18.0120.C4
Gene No.	43598	Strand	-
Start	37624	End	39228
Name	OJ991007_18.0120.C4.o6.ts	Method	TBLASTX:Soybean
Start	37624	End	38835
GI	none	Score	201
Exons	37624..37752, 37635..37763, 37635..37748, 38717..38803, 38717..38797, 38722..38802, 38779..38835		

Seq. No.	20890	Seq. ID	OJ991007_18.0120.C4
Gene No.	43598	Strand	-
Start	37624	End	39228
Name	OJ991007_18.0120.C4.o9.tm	Method	TBLASTX:Maize

Start	37624	End	37763
GI	none	Score	204
Exons	37624..37752, 37635..37763, 37635..37748		

Seq. No.	20890	Seq. ID	OJ991007_18.0120.C4
Gene No.	43598	Strand	
Start	37624	End	39228
Name	OJ991007_18.0120.C4.o7.tm	Method	TBLASTX:Maize
Start	38634	End	39228
GI	none	Score	99
Exons	38634..38870, 38671..38880, 38700..38810, 38711..38881, 39124..39228, 39125..39181		

Seq. No.	20890	Seq. ID	OJ991007_18.0120.C4
Gene No.	43599	Strand	
Start	40966	End	42027
Name	OJ991007_18.0120.C4.o5.ts	Method	TBLASTX:Soybean
Start	40966	End	41532
GI	none	Score	73
Exons	40966..41025, 41171..41200, 41301..41528, 41311..41532, 41329..41532		

Seq. No.	20890	Seq. ID	OJ991007_18.0120.C4
Gene No.	43599	Strand	
Start	40966	End	42027
Name	OJ991007_18.0120.C4.o4.tm	Method	TBLASTX:Maize
Start	41175	End	42027
GI	none	Score	43
Exons	41175..41201, 41301..41579, 41302..41532, 41782..41898, 41782..41904, 41783..41914, 41786..41914, 41787..41924, 42004..42027		

Seq. No.	20890	Seq. ID	OJ991007_18.0120.C4
Gene No.	43600	Strand	
Start	42180	End	42700
Name	OJ991007_18.0120.C4.o2.ts	Method	TBLASTX:Soybean
Start	42180	End	42700
GI	none	Score	311
Exons	42180..42410, 42180..42410, 42181..42411, 42251..42412, 42503..42700		

Seq. No.	20891	Seq. ID	OJ991007_18.0120.C5
Gene No.	43601	Strand	+
Start	1	End	13990
Name	OJ991007_18.0120.C5.o1.np	Method	AAT/NAP
Start	1	End	2470
GI	4586036	Score	611
Exons	1..1334, 2424..2470		
GI Descrip.	(AC007109) unknown protein [Arabidopsis thaliana]		

Seq. No.	20891	Seq. ID	OJ991007_18.0120.C5
Gene No.	43601	Strand	+
Start	1	End	13990
Name	OJ991007_18.0120.C5.o3.np	Method	AAT/NAP
Start	18	End	13990
GI	345604	Score	116
Exons	18..66, 7551..7915, 8308..8354, 10103..10380, 12389..12504,		

13673..13990  
 GI Descrip. proline-rich protein - African clawed frog  
 gi|64956|emb|CAA48321| (X68249) Proline rich protein [Xenopus  
 laevis]

Seq. No.	20891	Seq. ID	OJ991007_18.0120.C5
Gene No.	43601	Strand	+
Start	1	End	13990
Name	OJ991007_18.0120.C5.o1.gs	Method	GENSCAN
Start	50	End	1366
GI	none	Score	.42
Exons	50..1366		

Seq. No.	20891	Seq. ID	OJ991007_18.0120.C5
Gene No.	43602	Strand	-
Start	2048	End	19299
Name	OJ991007_18.0120.C5.o1.tc	Method	TBLASTX:Cress
Start	314	End	988
GI	none	Score	89
Exons	314..475, 314..424, 317..685, 317..664, 407..580, 695..877, 701..883, 703..879, 707..880, 751..879, 883..987, 884..988		

Seq. No.	20891	Seq. ID	OJ991007_18.0120.C5
Gene No.	43602	Strand	-
Start	2048	End	19299
Name	OJ991007_18.0120.C5.o2.tm	Method	TBLASTX:Maize
Start	359	End	1219
GI	none	Score	69
Exons	359..475, 740..874, 842..1078, 883..1026, 884..1126, 908..1093, 1124..1219		

Seq. No.	20891	Seq. ID	OJ991007_18.0120.C5
Gene No.	43602	Strand	-
Start	2048	End	19299
Name	OJ991007_18.0120.C5.o1.tw	Method	TBLASTX:Wheat
Start	392	End	1014
GI	none	Score	140
Exons	392..655, 545..706, 583..669, 694..858, 698..880, 841..1014, 884..1012		

Seq. No.	20891	Seq. ID	OJ991007_18.0120.C5
Gene No.	43602	Strand	-
Start	2048	End	19299
Name	OJ991007_18.0120.C5.o2.ts	Method	TBLASTX:Soybean
Start	461	End	1108
GI	none	Score	103
Exons	461..655, 473..568, 776..874, 883..1104, 884..1108, 911..1105		

Seq. No.	20891	Seq. ID	OJ991007_18.0120.C5
Gene No.	43602	Strand	-
Start	2048	End	19299
Name	OJ991007_18.0120.C5.o3.tc	Method	TBLASTX:Cress
Start	992	End	1321
GI	none	Score	131
Exons	992..1216, 1202..1321		

Seq. No.	20891	Seq. ID	OJ991007_18.0120.C5
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Gene No. 43602 Strand -  
 Start 2048 End 19299  
 Name OJ991007\_18.0120.C5.o2.tc Method TBLASTX:Cress  
 Start 2044 End 3580  
 GI none Score 71  
 Exons 2044..2196, 2045..2245, 2058..2237, 2355..2474, 2357..2449,  
 2362..2475, 3143..3292, 3147..3284, 3361..3444, 3365..3445,  
 3529..3579, 3530..3580

Seq. No. 20891 Seq. ID OJ991007\_18.0120.C5  
 Gene No. 43602 Strand -  
 Start 2048 End 19299  
 Name OJ991007\_18.0120.C5.o1.ts Method TBLASTX:Soybean  
 Start 2045 End 2457  
 GI none Score 173  
 Exons 2045..2245, 2058..2237, 2355..2456, 2361..2453, 2362..2457

Seq. No. 20891 Seq. ID OJ991007\_18.0120.C5  
 Gene No. 43602 Strand -  
 Start 2048 End 19299  
 Name OJ991007\_18.0120.C5.o2.np Method AAT/NAP  
 Start 2048 End 5014  
 GI 5902404 Score 612  
 Exons 2048..2236, 2361..2474, 3143..3281, 3365..3446, 3528..3580,  
 4918..5014  
 GI Descrip. (AC008148) Unknown protein [Arabidopsis thaliana]

Seq. No. 20891 Seq. ID OJ991007\_18.0120.C5  
 Gene No. 43602 Strand -  
 Start 2048 End 19299  
 Name OJ991007\_18.0120.C5.o1.tm Method TBLASTX:Maize  
 Start 2180 End 3579  
 GI none Score 69  
 Exons 2180..2239, 2181..2237, 2183..2239, 2355..2474, 2361..2471,  
 2362..2475, 3143..3292, 3147..3284, 3361..3441, 3365..3451,  
 3517..3579, 3518..3577

Seq. No. 20891 Seq. ID OJ991007\_18.0120.C5  
 Gene No. 43602 Strand -  
 Start 2048 End 19299  
 Name OJ991007\_18.0120.C5.o2.gs Method GENSCAN  
 Start 2449 End 19299  
 GI none Score .61  
 Exons 2449..2474, 3143..3324, 3866..4011, 4075..4193, 4354..4450,  
 4959..5229, 7604..7782, 7848..8011, 8534..8616, 10309..10481,  
 11136..11445, 11794..11922, 13403..13491, 13929..14144,  
 18882..18987, 19094..19299

Seq. No. 20892 Seq. ID OJ991007\_18.0120.C6  
 Gene No. 43603 Strand +  
 Start 1 End 3362  
 Name OJ991007\_18.0120.C6.o1.np Method AAT/NAP  
 Start 1 End 3344  
 GI 6358770 Score 452  
 Exons 1..120, 1240..1397, 2682..2762, 2841..3082, 3188..3344  
 GI Descrip. (AC011665) putative DNA-binding protein [Arabidopsis thaliana]  
 gi|6524180|gb|AAF15065.1|AC011914\_7 (AC011914) putative

DNA-binding protein [Arabidopsis thaliana]

Seq. No.	20892	Seq. ID	OJ991007_18.0120.C6
Gene No.	43603	Strand	+
Start	1	End	3362
Name	OJ991007_18.0120.C6.o1.gs	Method	GENSCAN
Start	987	End	3362
GI	none	Score	.48
Exons	987..1206, 1248..1397, 2578..3362		
Seq. No.	20892	Seq. ID	OJ991007_18.0120.C6
Gene No.	43603	Strand	+
Start	1	End	3362
Name	OJ991007_18.0120.C6.o1.gp	Method	AAT/GAP
Start	1128	End	1366
GI	2310763	Score	412
Exons	1128..1366		
Seq. No.	20892	Seq. ID	OJ991007_18.0120.C6
Gene No.	43604	Strand	-
Start	4185	End	20012
Name	OJ991007_18.0120.C6.o2.gs	Method	GENSCAN
Start	4185	End	19976
GI	none	Score	.58
Exons	4185..4245, 4303..4388, 4824..4999, 5959..6045, 6220..6355, 7226..7354, 8554..8640, 13309..13393, 14363..14570, 19262..19976		
Seq. No.	20892	Seq. ID	OJ991007_18.0120.C6
Gene No.	43604	Strand	-
Start	4185	End	20012
Name	OJ991007_18.0120.C6.o2.np	Method	AAT/NAP
Start	15636	End	17061
GI	5852084	Score	90
Exons	15636..15719, 17035..17061		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		
Seq. No.	20892	Seq. ID	OJ991007_18.0120.C6
Gene No.	43604	Strand	-
Start	4185	End	20012
Name	OJ991007_18.0120.C6.o3.np	Method	AAT/NAP
Start	19522	End	20012
GI	6358623	Score	162
Exons	19522..20012		
GI Descrip.	(AF146877) cyc4 protein [Antirrhinum graniticum]		
Seq. No.	20892	Seq. ID	OJ991007_18.0120.C6
Gene No.	43605	Strand	-
Start	27013	End	28085
Name	OJ991007_18.0120.C6.o4.gs	Method	GENSCAN
Start	27013	End	28085
GI	none	Score	.78
Exons	27013..27202, 27469..27579, 27904..28085		
Seq. No.	20892	Seq. ID	OJ991007_18.0120.C6
Gene No.	43606	Strand	-
Start	29193	End	29718
Name	OJ991007_18.0120.C6.o5.gs	Method	GENSCAN

Start 29193  
 GI none  
 Exons 29193..29290, 29586..29718

End 29718  
 Score .48

Seq. No. 20892  
 Gene No. 43607  
 Start 30288  
 Name OJ991007\_18.0120.C6.o2.ts  
 Start 1316  
 GI none  
 Exons 1316..1396, 1347..1409, 2679..2747, 2847..3050

Seq. ID OJ991007\_18.0120.C6  
 Strand -  
 End 30866  
 Method TBLASTX:Soybean  
 End 3050  
 Score 75

Seq. No. 20892  
 Gene No. 43607  
 Start 30288  
 Name OJ991007\_18.0120.C6.o1.tc  
 Start 19560  
 GI none  
 Exons 19560..19748, 19561..19650

Seq. ID OJ991007\_18.0120.C6  
 Strand -  
 End 30866  
 Method TBLASTX:Cress  
 End 19748  
 Score 69

Seq. No. 20892  
 Gene No. 43607  
 Start 30288  
 Name OJ991007\_18.0120.C6.o1.ts  
 Start 19596  
 GI none  
 Exons 19596..19718, 19596..19760, 19597..19749

Seq. ID OJ991007\_18.0120.C6  
 Strand -  
 End 30866  
 Method TBLASTX:Soybean  
 End 19760  
 Score 71

Seq. No. 20892  
 Gene No. 43607  
 Start 30288  
 Name OJ991007\_18.0120.C6.o4.np  
 Start 30288  
 GI 6714286  
 Exons 30288..30363, 30528..30660, 30819..30866  
 GI Descrip. (AC013354) F15H18.5 [Arabidopsis thaliana]

Seq. ID OJ991007\_18.0120.C6  
 Strand -  
 End 30866  
 Method AAT/NAP  
 End 30866  
 Score 159

Seq. No. 20893  
 Gene No. 43608  
 Start 1  
 Name OJ991027\_13.0131.C1.o1.gp  
 Start 1  
 GI none  
 Exons 1..240

Seq. ID OJ991027\_13.0131.C1  
 Strand -  
 End 240  
 Method AAT/GAP  
 End 240  
 Score 437

Seq. No. 20894  
 Gene No. 43609  
 Start 4302  
 Name OJ991027\_13.0131.C3.o1.gp  
 Start 4279  
 GI none  
 Exons 4279..4677

Seq. ID OJ991027\_13.0131.C3  
 Strand +  
 End 4767  
 Method AAT/GAP  
 End 4677  
 Score 723

Seq. No. 20894  
 Gene No. 43609  
 Start 4302  
 Name OJ991027\_13.0131.C3.o1.np

Seq. ID OJ991027\_13.0131.C3  
 Strand +  
 End 4767  
 Method AAT/NAP

Start	4296	End	4767
GI	4559369	Score	341
Exons	4296..4767		
GI Descrip.	(AC006585) putative Rieske iron-sulfur protein [Arabidopsis thaliana]		

Seq. No.	20894	Seq. ID	OJ991027_13.0131.C3
Gene No.	43609	Strand	+
Start	4302	End	4767
Name	OJ991027_13.0131.C3.o2.gs	Method	GENSCAN
Start	4302	End	4759
GI	none	Score	.97
Exons	4302..4759		

Seq. No.	20894	Seq. ID	OJ991027_13.0131.C3
Gene No.	43610	Strand	-
Start	1495	End	2742
Name	OJ991027_13.0131.C3.o1.gs	Method	GENSCAN
Start	1495	End	2742
GI	none	Score	.88
Exons	1495..1590, 1909..2040, 2731..2742		

Seq. No.	20894	Seq. ID	OJ991027_13.0131.C3
Gene No.	43611	Strand	
Start	4497	End	4766
Name	OJ991027_13.0131.C3.o1.ts	Method	TBLASTX:Soybean
Start	4497	End	4706
GI	none	Score	218
Exons	4497..4706, 4550..4705		

Seq. No.	20894	Seq. ID	OJ991027_13.0131.C3
Gene No.	43611	Strand	
Start	4497	End	4766
Name	OJ991027_13.0131.C3.o1.tc	Method	TBLASTX:Cress
Start	4503	End	4766
GI	none	Score	366
Exons	4503..4766, 4517..4765		

Seq. No.	20895	Seq. ID	OJ991027_13.0131.C4
Gene No.	43612	Strand	+
Start	1	End	719
Name	OJ991027_13.0131.C4.o1.np	Method	AAT/NAP
Start	1	End	716
GI	2764524	Score	849
Exons	1..716		
GI Descrip.	(AJ000520) Rieske iron-sulfur protein Tic55 [Pisum sativum]		

Seq. No.	20895	Seq. ID	OJ991027_13.0131.C4
Gene No.	43612	Strand	+
Start	1	End	719
Name	OJ991027_13.0131.C4.o1.gs	Method	GENSCAN
Start	87	End	719
GI	none	Score	.73
Exons	87..719		

Seq. No.	20895	Seq. ID	OJ991027_13.0131.C4
Gene No.	43613	Strand	-

Start 1487  
 Name OJ991027\_13.0131.C4.o3.tm  
 Start 1  
 GI none  
 Exons 1..111, 2..199, 3..200

End 4480  
 Method TBLASTX:Maize  
 End 200  
 Score 314

Seq. No. 20895  
 Gene No. 43613  
 Start 1487  
 Name OJ991027\_13.0131.C4.o2.ts  
 Start 8  
 GI none  
 Exons 8..481, 9..356, 408..488

Seq. ID OJ991027\_13.0131.C4  
 Strand -  
 End 4480  
 Method TBLASTX:Soybean  
 End 488  
 Score 513

Seq. No. 20895  
 Gene No. 43613  
 Start 1487  
 Name OJ991027\_13.0131.C4.o2.tc  
 Start 81  
 GI none  
 Exons 81..356, 83..481, 411..530

Seq. ID OJ991027\_13.0131.C4  
 Strand -  
 End 4480  
 Method TBLASTX:Cress  
 End 530  
 Score 423

Seq. No. 20895  
 Gene No. 43613  
 Start 1487  
 Name OJ991027\_13.0131.C4.o2.tm  
 Start 200  
 GI none  
 Exons 200..619, 201..356, 408..530, 467..544, 659..718, 660..716

Seq. ID OJ991027\_13.0131.C4  
 Strand -  
 End 4480  
 Method TBLASTX:Maize  
 End 718  
 Score 272

Seq. No. 20895  
 Gene No. 43613  
 Start 1487  
 Name OJ991027\_13.0131.C4.o1.gp  
 Start 1192  
 GI 1233\_1.R1084  
 Exons 1192..1783, 1863..2103, 2400..2574, 2683..2794, 3808..4047, 4155..4480

Seq. ID OJ991027\_13.0131.C4  
 Strand -  
 End 4480  
 Method AAT/GAP  
 End 4480  
 Score 3196

GI Descrip. '5853323/gb|AAD54422.1| 2.0e-09 (AF181686) membrane protein TMS1d [Drosophila melanogaster]'

Seq. No. 20895  
 Gene No. 43613  
 Start 1487  
 Name OJ991027\_13.0131.C4.o1.tw  
 Start 1218  
 GI none  
 Exons 1218..1253, 1274..1315, 1288..1335, 1321..1371, 1321..1371, 1375..1419, 1378..1413, 1471..1653, 1484..1672, 1485..1736, 1489..1710

Seq. ID OJ991027\_13.0131.C4  
 Strand -  
 End 4480  
 Method TBLASTX:Wheat  
 End 1736  
 Score 37

Seq. No. 20895  
 Gene No. 43613  
 Start 1487  
 Name OJ991027\_13.0131.C4.o1.tm  
 Start 1241  
 GI none

Seq. ID OJ991027\_13.0131.C4  
 Strand -  
 End 4480  
 Method TBLASTX:Maize  
 End 4273  
 Score 81



Exons 1241..1330, 1246..1332, 1270..1332, 1476..1781, 1479..1784,  
1866..2105, 1867..2106, 1867..2106, 2362..2574, 2401..2574,  
2462..2581, 2673..2801, 2681..2788, 3791..4072, 3810..4073,  
4154..4273, 4156..4272

Seq. No. 20895 Seq. ID OJ991027\_13.0131.C4  
Gene No. 43613 Strand -  
Start 1487 End 4480  
Name OJ991027\_13.0131.C4.o1.ts Method TBLASTX:Soybean  
Start 1482 End 2801  
GI none Score 254  
Exons 1482..1745, 1495..1710, 1577..1768, 1861..2103, 1862..1990,  
1956..2099, 2397..2573, 2398..2574, 2465..2602, 2673..2801,  
2681..2800, 2682..2801

Seq. No. 20895 Seq. ID OJ991027\_13.0131.C4  
Gene No. 43613 Strand -  
Start 1487 End 4480  
Name OJ991027\_13.0131.C4.o1.tc Method TBLASTX:Cress  
Start 1485 End 2737  
GI none Score 277  
Exons 1485..1781, 1495..1707, 1864..2103, 1865..1990, 1980..2099,  
2398..2574, 2406..2585, 2416..2556, 2472..2573, 2673..2726,  
2674..2724, 2680..2736, 2681..2737

Seq. No. 20895 Seq. ID OJ991027\_13.0131.C4  
Gene No. 43613 Strand -  
Start 1487 End 4480  
Name OJ991027\_13.0131.C4.o2.gs Method GENSCAN  
Start 1487 End 4338  
GI none Score .94  
Exons 1487..1500, 1622..1783, 2031..2103, 2400..2574, 2683..2794,  
3808..4047, 4155..4338

Seq. No. 20895 Seq. ID OJ991027\_13.0131.C4  
Gene No. 43613 Strand -  
Start 1487 End 4480  
Name OJ991027\_13.0131.C4.o2.np Method AAT/NAP  
Start 1494 End 4338  
GI 6587821 Score 1686  
Exons 1494..1783, 1869..2103, 2400..2574, 2683..2794, 3808..4047,  
4155..4338

GI Descrip. (AC010924) Contains similarity to gb|AF181686 membrane protein  
TMS1d from Drosophila melanogaster. ESTs gb|R64994,  
gb|AI994832, gb|Z47674 come from this gene. [Arabidopsis  
thaliana]

Seq. No. 20895 Seq. ID OJ991027\_13.0131.C4  
Gene No. 43613 Strand -  
Start 1487 End 4480  
Name OJ991027\_13.0131.C4.o2.tw Method TBLASTX:Wheat  
Start 2439 End 3893  
GI none Score 171  
Exons 2439..2576, 2472..2573, 2681..2785, 2681..2794, 3791..3892,  
3810..3893

Seq. No. 20895 Seq. ID OJ991027\_13.0131.C4

Gene No.	43613	Strand	-
Start	1487	End	4480
Name	OJ991027_13.0131.C4.o3.tc	Method	TBLASTX:Cress
Start	2740	End	4272
GI	none	Score	66
Exons	2740..2802, 2743..2802, 3791..3892, 3809..3889, 3885..3908, 3903..4073, 3911..4072, 4156..4272, 4172..4255		

Seq. No.	20895	Seq. ID	OJ991027_13.0131.C4
Gene No.	43613	Strand	-
Start	1487	End	4480
Name	OJ991027_13.0131.C4.o3.ts	Method	TBLASTX:Soybean
Start	3791	End	4272
GI	none	Score	227
Exons	3791..4072, 3810..4073, 4156..4272, 4157..4258		

Seq. No.	20895	Seq. ID	OJ991027_13.0131.C4
Gene No.	43613	Strand	-
Start	1487	End	4480
Name	OJ991027_13.0131.C4.o3.tw	Method	TBLASTX:Wheat
Start	3999	End	4414
GI	none	Score	88
Exons	3999..4046, 4001..4072, 4003..4050, 4154..4273, 4156..4272, 4376..4414		

Seq. No.	20896	Seq. ID	OJ991027_13.0131.C5
Gene No.	43614	Strand	-
Start	1	End	2322
Name	OJ991027_13.0131.C5.o1.np	Method	AAT/NAP
Start	1	End	2322
GI	4559368	Score	811
Exons	1..559, 839..899, 1635..1951, 2301..2322		
GI Descrip.	(AC006585) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	20896	Seq. ID	OJ991027_13.0131.C5
Gene No.	43614	Strand	-
Start	1	End	2322
Name	OJ991027_13.0131.C5.o1.tm	Method	TBLASTX:Maize
Start	35	End	1758
GI	none	Score	262
Exons	35..64, 67..231, 69..311, 72..248, 314..559, 315..560, 334..567, 345..572, 823..900, 828..905, 829..900, 1626..1757, 1632..1757, 1636..1758		

Seq. No.	20896	Seq. ID	OJ991027_13.0131.C5
Gene No.	43614	Strand	-
Start	1	End	2322
Name	OJ991027_13.0131.C5.o1.gs	Method	GENSCAN
Start	60	End	1946
GI	none	Score	.58
Exons	60..530, 839..904, 1635..1946		

Seq. No.	20896	Seq. ID	OJ991027_13.0131.C5
Gene No.	43614	Strand	-
Start	1	End	2322
Name	OJ991027_13.0131.C5.o1.ts	Method	TBLASTX:Soybean
Start	121	End	566

GI none Score 111  
Exons 121..210, 121..201, 123..206, 210..242, 334..537, 345..566, 375..551

Seq. No. 20896 Seq. ID OJ991027\_13.0131.C5  
Gene No. 43614 Strand -  
Start 1 End 2322  
Name OJ991027\_13.0131.C5.o1.tw Method TBLASTX:Wheat  
Start 1642 End 1946  
GI none Score 148  
Exons 1642..1764, 1644..1763, 1658..1798, 1659..1799, 1830..1946, 1849..1899

Seq. No. 20897 Seq. ID OJ991027\_13.0131.C7  
Gene No. 43615 Strand +  
Start 1 End 17656  
Name OJ991027\_13.0131.C7.o1.np Method AAT/NAP  
Start 1 End 4334  
GI 6016734 Score 2890  
Exons 1..53, 429..1037, 1594..1955, 2115..2415, 2881..3003, 3267..3722, 3834..4334  
GI Descrip. (AC009325) unknown protein [Arabidopsis thaliana]  
gi|6091721|gb|AAF03433.1|AC010797\_9 (AC010797) unknown protein [Arabidopsis thaliana]

Seq. No. 20897 Seq. ID OJ991027\_13.0131.C7  
Gene No. 43615 Strand +  
Start 1 End 17656  
Name OJ991027\_13.0131.C7.o3.tm Method TBLASTX:Maize  
Start 424 End 7528  
GI none Score 168  
Exons 424..645, 427..621, 428..715, 434..715, 435..716, 7452..7526, 7463..7528

Seq. No. 20897 Seq. ID OJ991027\_13.0131.C7  
Gene No. 43615 Strand +  
Start 1 End 17656  
Name OJ991027\_13.0131.C7.o1.gs Method GENSCAN  
Start 435 End 17407  
GI none Score .71  
Exons 435..1037, 1594..1955, 2115..2415, 2881..3003, 3267..3722, 3834..4330, 4489..4576, 4681..6255, 6482..6622, 7411..7615, 7888..7996, 8220..8502, 8548..8727, 9160..9257, 9568..9664, 9940..10073, 10678..10759, 11365..11451, 11609..11715, 12405..12576, 12749..12990, 13213..13294, 13685..13750, 14666..14743, 14814..14909, 15522..15628, 15762..15907, 16275..16381, 16677..16771, 16906..16996, 17073..17219, 17345..17407

Seq. No. 20897 Seq. ID OJ991027\_13.0131.C7  
Gene No. 43615 Strand +  
Start 1 End 17656  
Name OJ991027\_13.0131.C7.o1.ts Method TBLASTX:Soybean  
Start 512 End 951  
GI none Score 609  
Exons 512..763, 513..947, 778..906, 790..951, 800..949

Seq. No.	20897	Seq. ID	OJ991027_13.0131.C7
Gene No.	43615	Strand	+
Start	1	End	17656
Name	OJ991027_13.0131.C7.o3.ts	Method	TBLASTX:Soybean
Start	953	End	1958
GI	none	Score	93
Exons	953..1042, 960..1040, 1611..1958, 1618..1644, 1625..1921, 1699..1956		

Seq. No.	20897	Seq. ID	OJ991027_13.0131.C7
Gene No.	43615	Strand	+
Start	1	End	17656
Name	OJ991027_13.0131.C7.o6.tm	Method	TBLASTX:Maize
Start	1645	End	1914
GI	none	Score	314
Exons	1645..1911, 1646..1912, 1695..1913, 1698..1913, 1699..1914		

Seq. No.	20897	Seq. ID	OJ991027_13.0131.C7
Gene No.	43615	Strand	+
Start	1	End	17656
Name	OJ991027_13.0131.C7.o2.tm	Method	TBLASTX:Maize
Start	1915	End	3464
GI	none	Score	69
Exons	1915..1956, 1917..1961, 2082..2414, 2085..2414, 2113..2418, 2113..2415, 2878..3003, 2879..3004, 2880..3008, 2883..3005, 3258..3425, 3258..3425, 3259..3426, 3266..3427, 3425..3463, 3426..3464		

Seq. No.	20897	Seq. ID	OJ991027_13.0131.C7
Gene No.	43615	Strand	+
Start	1	End	17656
Name	OJ991027_13.0131.C7.o8.ts	Method	TBLASTX:Soybean
Start	2223	End	2418
GI	none	Score	96
Exons	2223..2291, 2224..2319, 2294..2416, 2301..2417, 2302..2418		

Seq. No.	20897	Seq. ID	OJ991027_13.0131.C7
Gene No.	43615	Strand	+
Start	1	End	17656
Name	OJ991027_13.0131.C7.o1.tm	Method	TBLASTX:Maize
Start	3517	End	4115
GI	none	Score	186
Exons	3517..3711, 3530..3721, 3530..3721, 3531..3725, 3831..4115, 3832..4113, 3833..4114		

Seq. No.	20897	Seq. ID	OJ991027_13.0131.C7
Gene No.	43615	Strand	+
Start	1	End	17656
Name	OJ991027_13.0131.C7.o2.ts	Method	TBLASTX:Soybean
Start	3521	End	4034
GI	none	Score	297
Exons	3521..3718, 3522..3725, 3540..3725, 3831..4034, 3836..4033		

Seq. No.	20897	Seq. ID	OJ991027_13.0131.C7
Gene No.	43615	Strand	+
Start	1	End	17656
Name	OJ991027_13.0131.C7.o2.tw	Method	TBLASTX:Wheat

Start	4028	End	4339
GI	none	Score	137
Exons	4028..4153, 4029..4118, 4188..4337, 4198..4239, 4202..4339, 4294..4338		

Seq. No.	20897	Seq. ID	OJ991027_13.0131.C7
Gene No.	43615	Strand	+
Start	1	End	17656
Name	OJ991027_13.0131.C7.o9.ts	Method	TBLASTX:Soybean
Start	4062	End	4393
GI	none	Score	70
Exons	4062..4118, 4212..4340, 4358..4393		

Seq. No.	20897	Seq. ID	OJ991027_13.0131.C7
Gene No.	43615	Strand	+
Start	1	End	17656
Name	OJ991027_13.0131.C7.o9.tm	Method	TBLASTX:Maize
Start	4211	End	4510
GI	none	Score	211
Exons	4211..4369, 4212..4472, 4429..4458, 4472..4510		

Seq. No.	20897	Seq. ID	OJ991027_13.0131.C7
Gene No.	43615	Strand	+
Start	1	End	17656
Name	OJ991027_13.0131.C7.o2.np	Method	AAT/NAP
Start	4901	End	9838
GI	2894600	Score	811
Exons	4901..5351, 5406..5761, 5816..6274, 9748..9838		
GI Descrip.	(AL021889) putative protein [Arabidopsis thaliana]		

Seq. No.	20897	Seq. ID	OJ991027_13.0131.C7
Gene No.	43615	Strand	+
Start	1	End	17656
Name	OJ991027_13.0131.C7.o7.ts	Method	TBLASTX:Soybean
Start	4937	End	6066
GI	none	Score	83
Exons	4937..5077, 5091..5588, 5107..5799, 5107..5451, 5122..5490, 5158..5337, 5254..5436, 5335..6066, 5491..5619		

Seq. No.	20897	Seq. ID	OJ991027_13.0131.C7
Gene No.	43615	Strand	+
Start	1	End	17656
Name	OJ991027_13.0131.C7.o2.tc	Method	TBLASTX:Cress
Start	4946	End	6108
GI	none	Score	83
Exons	4946..5080, 4961..5074, 5033..5080, 5098..5319, 5125..5511, 5212..5397, 5239..5589, 5284..5511, 5316..5510, 5335..5694, 5389..5625, 5518..5709, 5560..5910, 5749..5934, 5779..6066, 5812..6039, 6085..6108		

Seq. No.	20897	Seq. ID	OJ991027_13.0131.C7
Gene No.	43615	Strand	+
Start	1	End	17656
Name	OJ991027_13.0131.C7.o8.tm	Method	TBLASTX:Maize
Start	4946	End	6045
GI	none	Score	66
Exons	4946..5080, 5152..5295, 5257..5400, 5319..5357, 5320..5373,		

5325..5543, 5362..5544, 5461..5613, 5470..5586, 5483..5599,  
5511..5600, 5512..5601, 5524..5601, 5785..5931, 5887..6045

Seq. No.	20897	Seq. ID	OJ991027_13.0131.C7
Gene No.	43615	Strand	+
Start	1	End	17656
Name	OJ991027_13.0131.C7.o1.gp	Method	AAT/GAP
Start	8301	End	9279
GI	571722	Score	675
Exons	8301..8430, 8548..8734, 9188..9279		

Seq. No.	20897	Seq. ID	OJ991027_13.0131.C7
Gene No.	43615	Strand	+
Start	1	End	17656
Name	OJ991027_13.0131.C7.o5.tm	Method	TBLASTX:Maize
Start	8372	End	9699
GI	none	Score	68
Exons	8372..8431, 8545..8598, 8546..8728, 8656..8727, 9178..9264, 9181..9255, 9201..9257, 9530..9664, 9569..9664, 9610..9699, 9612..9686		

Seq. No.	20897	Seq. ID	OJ991027_13.0131.C7
Gene No.	43615	Strand	+
Start	1	End	17656
Name	OJ991027_13.0131.C7.o4.ts	Method	TBLASTX:Soybean
Start	8372	End	8728
GI	none	Score	62
Exons	8372..8431, 8545..8724, 8546..8728		

Seq. No.	20897	Seq. ID	OJ991027_13.0131.C7
Gene No.	43615	Strand	+
Start	1	End	17656
Name	OJ991027_13.0131.C7.o1.tw	Method	TBLASTX:Wheat
Start	8372	End	9264
GI	none	Score	71
Exons	8372..8431, 8545..8598, 8546..8728, 8656..8724, 9178..9264, 9178..9255		

Seq. No.	20897	Seq. ID	OJ991027_13.0131.C7
Gene No.	43615	Strand	+
Start	1	End	17656
Name	OJ991027_13.0131.C7.o1.tc	Method	TBLASTX:Cress
Start	8372	End	12578
GI	none	Score	68
Exons	8372..8431, 8386..8415, 8545..8598, 8546..8728, 8659..8733, 9178..9255, 9569..9664, 9928..10074, 9945..10076, 10676..10765, 11329..11454, 11608..11715, 11609..11716, 12379..12576, 12405..12578		

Seq. No.	20897	Seq. ID	OJ991027_13.0131.C7
Gene No.	43615	Strand	+
Start	1	End	17656
Name	OJ991027_13.0131.C7.o7.tm	Method	TBLASTX:Maize
Start	11379	End	16804
GI	none	Score	102
Exons	11379..11453, 11380..11454, 11396..11455, 11608..11709, 11609..11716, 11615..11716, 12358..12573, 12405..12572,		

12747..12989, 12748..12990, 12749..12988, 13198..13257,  
 13204..13296, 13212..13313, 13684..13749, 13685..13750,  
 14663..14743, 14665..14745, 14665..14739, 14805..14909,  
 14808..14909, 14812..14910, 14813..14911, 14813..14911,  
 15521..15628, 15522..15632, 15761..15934, 15766..15927,  
 15768..15950, 16292..16381, 16296..16382, 16297..16383,  
 16298..16396, 16673..16804, 16676..16768, 16698..16778

Seq. No.	20897	Seq. ID	OJ991027_13.0131.C7
Gene No.	43615	Strand	+
Start	1	End	17656
Name	OJ991027_13.0131.C7.o2.gp	Method	AAT/GAP
Start	14666	End	16359
GI	none	Score	904
Exons	14666..14743, 14814..14909, 15522..15628, 15762..15930, 16298..16359		

Seq. No.	20897	Seq. ID	OJ991027_13.0131.C7
Gene No.	43615	Strand	+
Start	1	End	17656
Name	OJ991027_13.0131.C7.o3.tc	Method	TBLASTX:Cress
Start	14813	End	16360
GI	none	Score	119
Exons	14813..14911, 14817..14909, 15521..15625, 15522..15632, 15522..15629, 15523..15633, 15763..15927, 15766..15927, 15849..15932, 16292..16360, 16295..16360		

Seq. No.	20897	Seq. ID	OJ991027_13.0131.C7
Gene No.	43615	Strand	+
Start	1	End	17656
Name	OJ991027_13.0131.C7.o5.ts	Method	TBLASTX:Soybean
Start	14813	End	16354
GI	none	Score	114
Exons	14813..14911, 14817..14909, 15521..15628, 15522..15632, 15523..15651, 15763..15903, 15766..15951, 15843..15926, 16298..16354		

Seq. No.	20897	Seq. ID	OJ991027_13.0131.C7
Gene No.	43615	Strand	+
Start	1	End	17656
Name	OJ991027_13.0131.C7.o6.ts	Method	TBLASTX:Soybean
Start	16670	End	17392
GI	none	Score	93
Exons	16670..16777, 16673..16777, 16701..16778, 16905..16991, 16906..16995, 16906..16992, 16907..16999, 17070..17222, 17075..17194, 17345..17392		

Seq. No.	20897	Seq. ID	OJ991027_13.0131.C7
Gene No.	43615	Strand	+
Start	1	End	17656
Name	OJ991027_13.0131.C7.o4.tc	Method	TBLASTX:Cress
Start	16676	End	17222
GI	none	Score	122
Exons	16676..16795, 16701..16778, 16906..16989, 16907..16999, 17070..17222, 17075..17209		

Seq. No.	20897	Seq. ID	OJ991027_13.0131.C7
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Gene No. 43615 Strand +  
 Start 1 End 17656  
 Name OJ991027\_13.0131.C7.o4.tm Method TBLASTX:Maize  
 Start 16881 End 17404  
 GI none Score 126  
 Exons 16881..16994, 16897..17001, 16904..16999, 17072..17221,  
 17073..17222, 17074..17256, 17342..17404, 17345..17398

Seq. No. 20897 Seq. ID OJ991027\_13.0131.C7  
 Gene No. 43615 Strand +  
 Start 1 End 17656  
 Name OJ991027\_13.0131.C7.o3.gp Method AAT/GAP  
 Start 16900 End 17656  
 GI 3768288 Score 928  
 Exons 16900..16996, 17073..17219, 17345..17656

Seq. No. 20898 Seq. ID OJ991027\_13.0131.C8  
 Gene No. 43616 Strand +  
 Start 7207 End 7506  
 Name OJ991027\_13.0131.C8.o1.np Method AAT/NAP  
 Start 7207 End 7506  
 GI 4559358 Score 340  
 Exons 7207..7506  
 GI Descrip. (AC006585) putative steroid binding protein [Arabidopsis  
 thaliana]

Seq. No. 20898 Seq. ID OJ991027\_13.0131.C8  
 Gene No. 43617 Strand +  
 Start 10495 End 12207  
 Name OJ991027\_13.0131.C8.o2.np Method AAT/NAP  
 Start 10495 End 12207  
 GI 4115371 Score 258  
 Exons 10495..10555, 11714..11916, 12047..12207  
 GI Descrip. (AC005967) unknown protein [Arabidopsis thaliana]

Seq. No. 20898 Seq. ID OJ991027\_13.0131.C8  
 Gene No. 43618 Strand -  
 Start 2355 End 5752  
 Name OJ991027\_13.0131.C8.o2.gs Method GENSCAN  
 Start 2355 End 5752  
 GI none Score .79  
 Exons 2355..2747, 2905..3057, 3129..4007, 4168..4235, 4526..4623,  
 4656..4823, 5634..5752

Seq. No. 20898 Seq. ID OJ991027\_13.0131.C8  
 Gene No. 43619 Strand -  
 Start 7144 End 7712  
 Name OJ991027\_13.0131.C8.o2.tw Method TBLASTX:Wheat  
 Start 2914 End 3276  
 GI none Score 79  
 Exons 2914..3039, 2915..3007, 2917..3024, 3040..3060, 3043..3060,  
 3110..3259, 3126..3272, 3127..3276

Seq. No. 20898 Seq. ID OJ991027\_13.0131.C8  
 Gene No. 43619 Strand -  
 Start 7144 End 7712  
 Name OJ991027\_13.0131.C8.o3.tw Method TBLASTX:Wheat



Start	3621	End	4005
GI	none	Score	68
Exons	3621..3746, 3622..3801, 3859..4005, 3861..4004, 3936..4004		

  

Seq. No.	20898	Seq. ID	OJ991027_13.0131.C8
Gene No.	43619	Strand	-
Start	7144	End	7712
Name	OJ991027_13.0131.C8.o1.gp	Method	AAT/GAP
Start	7144	End	7712
GI	4639_1.R1084	Score	1089
Exons	7144..7712		
GI Descrip.	'4559358/gb AAD23019.1 AC006585_14 1.0e-31 (AC006585) putative steroid binding protein [Arabidopsis thaliana]'		

Seq. No.	20898	Seq. ID	OJ991027_13.0131.C8
Gene No.	43619	Strand	-
Start	7144	End	7712
Name	OJ991027_13.0131.C8.o1.tw	Method	TBLASTX:Wheat
Start	7168	End	7437
GI	none	Score	333
Exons	7168..7437, 7242..7298, 7356..7388		

Seq. No.	20898	Seq. ID	OJ991027_13.0131.C8
Gene No.	43619	Strand	-
Start	7144	End	7712
Name	OJ991027_13.0131.C8.o1.tm	Method	TBLASTX:Maize
Start	7201	End	7500
GI	none	Score	489
Exons	7201..7500, 7242..7304, 7356..7496		

Seq. No.	20898	Seq. ID	OJ991027_13.0131.C8
Gene No.	43619	Strand	-
Start	7144	End	7712
Name	OJ991027_13.0131.C8.o1.tc	Method	TBLASTX:Cress
Start	7210	End	7509
GI	none	Score	342
Exons	7210..7509, 7242..7301, 7356..7496		

Seq. No.	20898	Seq. ID	OJ991027_13.0131.C8
Gene No.	43619	Strand	-
Start	7144	End	7712
Name	OJ991027_13.0131.C8.o1.ts	Method	TBLASTX:Soybean
Start	7210	End	7500
GI	none	Score	380
Exons	7210..7500, 7228..7263, 7242..7301, 7452..7496		

Seq. No.	20898	Seq. ID	OJ991027_13.0131.C8
Gene No.	43620	Strand	-
Start	11719	End	12207
Name	OJ991027_13.0131.C8.o2.tm	Method	TBLASTX:Maize
Start	11719	End	12207
GI	none	Score	105
Exons	11719..11799, 11725..11847, 11755..11916, 11824..11916, 12014..12187, 12028..12207, 12045..12164, 12053..12205		

Seq. No.	20898	Seq. ID	OJ991027_13.0131.C8
Gene No.	43620	Strand	-

Start	11719	End	12207
Name	OJ991027_13.0131.C8.o2.ts	Method	TBLASTX:Soybean
Start	11722	End	12187
GI	none	Score	115
Exons	11722..11832, 11854..11922, 12032..12181, 12045..12164, 12046..12186, 12053..12187		

Seq. No.	20899	Seq. ID	OJ991027_13.0131.C9
Gene No.	43621	Strand	+
Start	1	End	3604
Name	OJ991027_13.0131.C9.o1.np	Method	AAT/NAP
Start	1	End	3604
GI	5725442	Score	210
Exons	1..131, 489..685, 3585..3604		
GI Descrip.	(AL109787) putative protein [Arabidopsis thaliana]		

Seq. No.	20899	Seq. ID	OJ991027_13.0131.C9
Gene No.	43621	Strand	+
Start	1	End	3604
Name	OJ991027_13.0131.C9.o1.gs	Method	GENSCAN
Start	612	End	1403
GI	none	Score	.91
Exons	612..820, 910..1403		

Seq. No.	20899	Seq. ID	OJ991027_13.0131.C9
Gene No.	43622	Strand	-
Start	2417	End	6195
Name	OJ991027_13.0131.C9.o2.gs	Method	GENSCAN
Start	2417	End	6195
GI	none	Score	.75
Exons	2417..2632, 2878..3227, 4560..4655, 4713..4746, 4875..4982, 5019..5151, 5174..5317, 5996..6195		

Seq. No.	20899	Seq. ID	OJ991027_13.0131.C9
Gene No.	43622	Strand	-
Start	2417	End	6195
Name	OJ991027_13.0131.C9.o2.np	Method	AAT/NAP
Start	2432	End	3086
GI	6503306	Score	417
Exons	2432..2632, 2878..3086		
GI Descrip.	(AC011713) ESTs gb AI993522, gb T88335 and gb AA540932 come from this gene. [Arabidopsis thaliana]		

Seq. No.	20899	Seq. ID	OJ991027_13.0131.C9
Gene No.	43622	Strand	-
Start	2417	End	6195
Name	OJ991027_13.0131.C9.o1.gp	Method	AAT/GAP
Start	3059	End	4927
GI	none	Score	699
Exons	3059..3227, 4560..4655, 4818..4927		

Seq. No.	20899	Seq. ID	OJ991027_13.0131.C9
Gene No.	43623	Strand	-
Start	6688	End	12798
Name	OJ991027_13.0131.C9.o2.tm	Method	TBLASTX:Maize
Start	2389	End	4605
GI	none	Score	123

Exons 2389..2625, 2423..2629, 2443..2634, 2472..2633, 4573..4605

Seq. No.	20899	Seq. ID	OJ991027_13.0131.C9
Gene No.	43623	Strand	-
Start	6688	End	12798
Name	OJ991027_13.0131.C9.o1.ts	Method	TBLASTX:Soybean
Start	2432	End	4599
GI	none	Score	65
Exons	2432..2647, 2462..2521, 2866..3054, 2876..3064, 3037..3081, 4558..4599		

Seq. No.	20899	Seq. ID	OJ991027_13.0131.C9
Gene No.	43623	Strand	-
Start	6688	End	12798
Name	OJ991027_13.0131.C9.o1.tc	Method	TBLASTX:Cress
Start	2462	End	3081
GI	none	Score	36
Exons	2462..2647, 2873..2896, 2876..2896, 2878..3024, 2896..3024, 3037..3081		

Seq. No.	20899	Seq. ID	OJ991027_13.0131.C9
Gene No.	43623	Strand	-
Start	6688	End	12798
Name	OJ991027_13.0131.C9.o3.gs	Method	GENSCAN
Start	6688	End	12798
GI	none	Score	.79
Exons	6688..6920, 7023..7901, 7976..8365, 9087..9110, 9649..9690, 9753..9915, 12571..12798		

Seq. No.	20899	Seq. ID	OJ991027_13.0131.C9
Gene No.	43623	Strand	-
Start	6688	End	12798
Name	OJ991027_13.0131.C9.o1.tm	Method	TBLASTX:Maize
Start	6691	End	7899
GI	none	Score	113
Exons	6691..6813, 6692..6817, 6776..6922, 6802..6921, 6849..6923, 7043..7114, 7117..7149, 7119..7145, 7144..7287, 7163..7288, 7655..7849, 7657..7899, 7668..7892		

Seq. No.	20900	Seq. ID	OJ991027_13.0131.C10
Gene No.	43624	Strand	+
Start	2173	End	2563
Name	OJ991027_13.0131.C10.o1.gs	Method	GENSCAN
Start	2173	End	2563
GI	none	Score	.67
Exons	2173..2310, 2351..2563		

Seq. No.	20900	Seq. ID	OJ991027_13.0131.C10
Gene No.	43625	Strand	-
Start	2929	End	4002
Name	OJ991027_13.0131.C10.o2.gs	Method	GENSCAN
Start	2929	End	4002
GI	none	Score	.53
Exons	2929..3083, 3496..3546, 3773..3895, 3972..4002		

Seq. No.	20901	Seq. ID	OJ991027_13.0131.C11
Gene No.	43626	Strand	+

Start	159	End	277
Name	OJ991027_13.0131.C11.o1.gs	Method	GENSCAN
Start	159	End	277
GI	none	Score	.92
Exons	159..277		

Seq. No.	20901	Seq. ID	OJ991027_13.0131.C11
Gene No.	43627	Strand	-
Start	1262	End	1676
Name	OJ991027_13.0131.C11.o2.gs	Method	GENSCAN
Start	1262	End	1676
GI	none	Score	.94
Exons	1262..1293, 1574..1676		

Seq. No.	20901	Seq. ID	OJ991027_13.0131.C11
Gene No.	43628	Strand	-
Start	2162	End	3105
Name	OJ991027_13.0131.C11.o3.gs	Method	GENSCAN
Start	2162	End	3105
GI	none	Score	.65
Exons	2162..2197, 2235..2358, 2632..2662, 2991..3105		

Seq. No.	20901	Seq. ID	OJ991027_13.0131.C11
Gene No.	43629	Strand	-
Start	5726	End	12178
Name	OJ991027_13.0131.C11.o4.gs	Method	GENSCAN
Start	5726	End	11038
GI	none	Score	.9
Exons	5726..5999, 6651..6735, 7229..7472, 8138..8284, 8517..8645, 9759..9944, 10898..11038		

Seq. No.	20901	Seq. ID	OJ991027_13.0131.C11
Gene No.	43629	Strand	-
Start	5726	End	12178
Name	OJ991027_13.0131.C11.o1.np	Method	AAT/NAP
Start	7182	End	12178
GI	3128199	Score	273
Exons	7182..7562, 8138..8284, 8427..8676, 9743..9938, 10721..10814, 12141..12178		
GI Descrip.	(AC004521) unknown protein [Arabidopsis thaliana]		

Seq. No.	20901	Seq. ID	OJ991027_13.0131.C11
Gene No.	43629	Strand	-
Start	5726	End	12178
Name	OJ991027_13.0131.C11.o1.gp	Method	AAT/GAP
Start	9723	End	11053
GI	LIB3477-002-P1-K1-E3	Score	755
Exons	9723..9944, 10728..10814, 10898..11053		
GI Descrip.	'3176667 1.0e-17 (AC004393) Similar to hypothetical 41.9KD protein gb_1001369 from sequence of Synechocystis sp. gb_D64006. [Arabidopsis thaliana]'		

Seq. No.	20902	Seq. ID	OJ991027_13.0131.C12
Gene No.	43630	Strand	+
Start	838	End	4742
Name	OJ991027_13.0131.C12.o1.np	Method	AAT/NAP
Start	838	End	4742

GI 5441880 Score 460  
 Exons 838..1270, 4725..4742  
 GI Descrip. (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]

Seq. No. 20902 Seq. ID OJ991027\_13.0131.C12  
 Gene No. 43630 Strand +  
 Start 838 End 4742  
 Name OJ991027\_13.0131.C12.o2.np Method AAT/NAP  
 Start 838 End 2919  
 GI 5441880 Score 461  
 Exons 838..1274, 2900..2919  
 GI Descrip. (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]

Seq. No. 20902 Seq. ID OJ991027\_13.0131.C12  
 Gene No. 43631 Strand +  
 Start 11066 End 13079  
 Name OJ991027\_13.0131.C12.o1.gp Method AAT/GAP  
 Start 11066 End 13079  
 GI 29272\_1.R1084 Score 1020  
 Exons 11066..11337, 11471..11552, 11642..11775, 13026..13079  
 GI Descrip. '287938/emb|X54204|CVPRSET5C 6.0e-47 Cloning vector pRSET5c (pBluescript KS plus derivative)'

Seq. No. 20902 Seq. ID OJ991027\_13.0131.C12  
 Gene No. 43632 Strand +  
 Start 13382 End 14680  
 Name OJ991027\_13.0131.C12.o4.gs Method GENSCAN  
 Start 13382 End 14680  
 GI none Score .72  
 Exons 13382..13476, 13802..13851, 13886..13893, 14456..14680

Seq. No. 20902 Seq. ID OJ991027\_13.0131.C12  
 Gene No. 43633 Strand -  
 Start 5444 End 7030  
 Name OJ991027\_13.0131.C12.o2.gs Method GENSCAN  
 Start 5444 End 7030  
 GI none Score .74  
 Exons 5444..5593, 6536..6583, 6953..7030

Seq. No. 20902 Seq. ID OJ991027\_13.0131.C12  
 Gene No. 43634 Strand -  
 Start 9421 End 11741  
 Name OJ991027\_13.0131.C12.o3.gs Method GENSCAN  
 Start 9421 End 11741  
 GI none Score .45  
 Exons 9421..9475, 9558..9627, 10001..10083, 11002..11232, 11617..11741

Seq. No. 20902 Seq. ID OJ991027\_13.0131.C12  
 Gene No. 43635 Strand -  
 Start 15679 End 16552  
 Name OJ991027\_13.0131.C12.o5.gs Method GENSCAN  
 Start 15679 End 16552  
 GI none Score .82

Exons 15679..15802, 16539..16552

Seq. No.	20903	Seq. ID	OJ991027_13.0131.C13
Gene No.	43636	Strand	+
Start	5678	End	5848
Name	OJ991027_13.0131.C13.o1.np	Method	AAT/NAP
Start	5678	End	5848
GI	6721512	Score	65
Exons	5678..5848		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	20903	Seq. ID	OJ991027_13.0131.C13
Gene No.	43637	Strand	-
Start	356	End	5129
Name	OJ991027_13.0131.C13.o1.gs	Method	GENSCAN
Start	356	End	5129
GI	none	Score	.65
Exons	356..503, 2764..3036, 4155..4287, 4978..5129		

Seq. No.	20903	Seq. ID	OJ991027_13.0131.C13
Gene No.	43637	Strand	-
Start	356	End	5129
Name	OJ991027_13.0131.C13.o2.gp	Method	AAT/GAP
Start	1889	End	2438
GI	none	Score	988
Exons	1889..2438		

Seq. No.	20904	Seq. ID	OJ991027_13.0131.C14
Gene No.	43638	Strand	+
Start	1613	End	2089
Name	OJ991027_13.0131.C14.o1.gs	Method	GENSCAN
Start	1613	End	2089
GI	none	Score	.4
Exons	1613..1636, 1976..2089		

Seq. No.	20904	Seq. ID	OJ991027_13.0131.C14
Gene No.	43639	Strand	+
Start	5641	End	8640
Name	OJ991027_13.0131.C14.o1.gp	Method	AAT/GAP
Start	5596	End	6615
GI	2312270	Score	650
Exons	5596..5708, 5849..5922, 6282..6355, 6478..6615		
GI Descrip.	1176002/sp P43601 YFJ1_YEAST 1.0e-13 HYPOTHETICAL 55.1 KD PROTEIN IN FAB1-PES4 INTERGENIC REGION >gi_1084743_pir_S56276 probable membrane protein YFR021w - yeast (Saccharomyces cerevisiae) >gi_836776_dbj_BAA09260.1_ (D50617) YFR021W [Saccharomyces cerevisiae]		

Seq. No.	20904	Seq. ID	OJ991027_13.0131.C14
Gene No.	43639	Strand	+
Start	5641	End	8640
Name	OJ991027_13.0131.C14.o3.gs	Method	GENSCAN
Start	5641	End	8421
GI	none	Score	.86
Exons	5641..5708, 5849..5922, 6282..6355, 6478..6587, 6752..6861, 6988..7100, 7492..7611, 7692..7837, 7913..8023, 8100..8159, 8265..8421		

Seq. No.	20904	Seq. ID	OJ991027_13.0131.C14
Gene No.	43639	Strand	+
Start	5641	End	8640
Name	OJ991027_13.0131.C14.o2.gp	Method	AAT/GAP
Start	8085	End	8640
GI	none	Score	813
Exons	8085..8159, 8265..8640		

Seq. No.	20904	Seq. ID	OJ991027_13.0131.C14
Gene No.	43640	Strand	-
Start	3108	End	4388
Name	OJ991027_13.0131.C14.o2.gs	Method	GENSCAN
Start	3108	End	4388
GI	none	Score	.56
Exons	3108..3287, 4068..4247, 4305..4388		

Seq. No.	20904	Seq. ID	OJ991027_13.0131.C14
Gene No.	43641	Strand	-
Start	9068	End	14320
Name	OJ991027_13.0131.C14.o1.tw	Method	TBLASTX:Wheat
Start	859	End	1410
GI	none	Score	74
Exons	859..990, 979..1410, 1001..1189		

Seq. No.	20904	Seq. ID	OJ991027_13.0131.C14
Gene No.	43641	Strand	-
Start	9068	End	14320
Name	OJ991027_13.0131.C14.o3.ts	Method	TBLASTX:Soybean
Start	1000	End	1519
GI	none	Score	68
Exons	1000..1218, 1001..1132, 1210..1479, 1469..1519		

Seq. No.	20904	Seq. ID	OJ991027_13.0131.C14
Gene No.	43641	Strand	-
Start	9068	End	14320
Name	OJ991027_13.0131.C14.o2.tm	Method	TBLASTX:Maize
Start	1144	End	1776
GI	none	Score	112
Exons	1144..1170, 1165..1461, 1187..1438, 1475..1525, 1479..1718, 1556..1717, 1711..1776		

Seq. No.	20904	Seq. ID	OJ991027_13.0131.C14
Gene No.	43641	Strand	-
Start	9068	End	14320
Name	OJ991027_13.0131.C14.o2.tw	Method	TBLASTX:Wheat
Start	1417	End	1773
GI	none	Score	82
Exons	1417..1467, 1469..1600, 1610..1717, 1617..1745, 1699..1773		

Seq. No.	20904	Seq. ID	OJ991027_13.0131.C14
Gene No.	43641	Strand	-
Start	9068	End	14320
Name	OJ991027_13.0131.C14.o2.ts	Method	TBLASTX:Soybean
Start	5847	End	7973
GI	none	Score	83
Exons	5847..5921, 6306..6362, 6475..6648, 6477..6587, 6767..6865,		

6768..6863, 6939..7082, 6944..7081, 7474..7611, 7483..7611,  
7491..7616, 7689..7826, 7691..7798, 7901..7954, 7902..7973

Seq. No.	20904	Seq. ID	OJ991027_13.0131.C14
Gene No.	43641	Strand	-
Start	9068	End	14320
Name	OJ991027_13.0131.C14.o3.tm	Method	TBLASTX:Maize
Start	6986	End	7779
GI	none	Score	153
Exons	6986..7096, 6987..7088, 6996..7109, 6997..7104, 7485..7538, 7489..7533, 7521..7610, 7528..7620, 7682..7777, 7689..7778, 7690..7779, 7691..7777		

Seq. No.	20904	Seq. ID	OJ991027_13.0131.C14
Gene No.	43641	Strand	-
Start	9068	End	14320
Name	OJ991027_13.0131.C14.o4.tm	Method	TBLASTX:Maize
Start	7911	End	8366
GI	none	Score	134
Exons	7911..8027, 7911..8027, 7936..8031, 8062..8160, 8097..8168, 8262..8345, 8263..8361, 8265..8366		

Seq. No.	20904	Seq. ID	OJ991027_13.0131.C14
Gene No.	43641	Strand	-
Start	9068	End	14320
Name	OJ991027_13.0131.C14.o4.gs	Method	GENSCAN
Start	9068	End	14320
GI	none	Score	.81
Exons	9068..9119, 9333..9388, 9690..9815, 9909..10028, 10274..10371, 10544..10653, 10918..11069, 11433..11570, 11644..11712, 12458..12628, 13456..13710, 14111..14320		

Seq. No.	20904	Seq. ID	OJ991027_13.0131.C14
Gene No.	43641	Strand	-
Start	9068	End	14320
Name	OJ991027_13.0131.C14.o2.np	Method	AAT/NAP
Start	9091	End	14281
GI	3176674	Score	1005
Exons	9091..9109, 11616..11712, 12303..12359, 12458..12628, 12723..12791, 12891..12964, 13054..13100, 13196..13320, 13456..13710, 14111..14281		

GI Descrip. (AC003671) Contains similarity to Ste20-like kinase homolog from  
A. thaliana chromosome 4 contig gb|Z97336. [Arabidopsis  
thaliana]

Seq. No.	20904	Seq. ID	OJ991027_13.0131.C14
Gene No.	43641	Strand	-
Start	9068	End	14320
Name	OJ991027_13.0131.C14.o1.ts	Method	TBLASTX:Soybean
Start	11626	End	14191
GI	none	Score	121
Exons	11626..11709, 12458..12625, 12477..12626, 12694..12792, 12723..12794, 12871..12975, 12871..12969, 12888..12977, 13047..13100, 13055..13099, 13172..13324, 13183..13320, 13454..13651, 13455..13652, 13456..13710, 13457..13705, 14063..14089, 14099..14191		



Seq. No.	20904	Seq. ID	OJ991027_13.0131.C14
Gene No.	43641	Strand	-
Start	9068	End	14320
Name	OJ991027_13.0131.C14.o1.tm	Method	TBLASTX:Maize
Start	12500	End	13497
GI	none	Score	108
Exons	12500..12652, 12501..12626, 12536..12631, 12694..12792, 12723..12794, 12888..12977, 12889..12975, 13055..13099, 13058..13102, 13183..13320, 13184..13324, 13449..13475, 13456..13497		

Seq. No.	20904	Seq. ID	OJ991027_13.0131.C14
Gene No.	43641	Strand	-
Start	9068	End	14320
Name	OJ991027_13.0131.C14.o1.tc	Method	TBLASTX:Cress
Start	12738	End	13596
GI	none	Score	50
Exons	12738..12791, 12739..12792, 12888..12962, 12888..12971, 12889..12975, 13060..13107, 13061..13102, 13170..13310, 13183..13320, 13184..13321, 13456..13596		

Seq. No.	20905	Seq. ID	OJ991027_13.0131.C15
Gene No.	43642	Strand	+
Start	1089	End	2445
Name	OJ991027_13.0131.C15.o1.gs	Method	GENSCAN
Start	1089	End	2445
GI	none	Score	.66
Exons	1089..1206, 1855..1938, 2228..2445		

Seq. No.	20905	Seq. ID	OJ991027_13.0131.C15
Gene No.	43643	Strand	+
Start	3230	End	3774
Name	OJ991027_13.0131.C15.o2.gp	Method	AAT/GAP
Start	3230	End	3774
GI	68587_1.R1084	Score	761
Exons	3230..3774		
GI Descrip.	'3193316 1.0e-37 (AF069299) contains similarity to nucleotide sugar epimerases [Arabidopsis thaliana]'		

Seq. No.	20905	Seq. ID	OJ991027_13.0131.C15
Gene No.	43644	Strand	+
Start	4594	End	4928
Name	OJ991027_13.0131.C15.o4.gp	Method	AAT/GAP
Start	4594	End	4928
GI	4879909	Score	627
Exons	4594..4928		

Seq. No.	20905	Seq. ID	OJ991027_13.0131.C15
Gene No.	43645	Strand	+
Start	6514	End	9968
Name	OJ991027_13.0131.C15.o3.gs	Method	GENSCAN
Start	6514	End	9968
GI	none	Score	.61
Exons	6514..6565, 7123..7345, 8751..8894, 9872..9968		

Seq. No.	20905	Seq. ID	OJ991027_13.0131.C15
Gene No.	43646	Strand	-

Start	3537	End	4872
Name	OJ991027_13.0131.C15.o2.gs	Method	GENSCAN
Start	3537	End	4850
GI	none	Score	.97
Exons	3537..4850		
Seq. No.	20905	Seq. ID	OJ991027_13.0131.C15
Gene No.	43646	Strand	-
Start	3537	End	4872
Name	OJ991027_13.0131.C15.o1.np	Method	AAT/NAP
Start	3543	End	4859
GI	3193316	Score	1416
Exons	3543..4859		
GI Descrip.	(AF069299) contains similarity to nucleotide sugar epimerases [Arabidopsis thaliana]		

Seq. No.	20905	Seq. ID	OJ991027_13.0131.C15
Gene No.	43646	Strand	-
Start	3537	End	4872
Name	OJ991027_13.0131.C15.o1.tc	Method	TBLASTX:Cress
Start	3546	End	4854
GI	none	Score	280
Exons	3546..3953, 3565..3819, 3856..3954, 4062..4097, 4080..4562, 4081..4434, 4477..4566, 4603..4779, 4614..4778, 4686..4850, 4795..4854		

Seq. No.	20905	Seq. ID	OJ991027_13.0131.C15
Gene No.	43646	Strand	-
Start	3537	End	4872
Name	OJ991027_13.0131.C15.o1.tm	Method	TBLASTX:Maize
Start	3552	End	4289
GI	none	Score	350
Exons	3552..3803, 3552..4289, 3553..4284		

Seq. No.	20905	Seq. ID	OJ991027_13.0131.C15
Gene No.	43646	Strand	-
Start	3537	End	4872
Name	~ OJ991027_13.0131.C15.o1.ts	Method	TBLASTX:Soybean
Start	3552	End	4854
GI	none	Score	823
Exons	3552..4562, 3553..4437, 4477..4566, 4603..4854, 4614..4853		

Seq. No.	20905	Seq. ID	OJ991027_13.0131.C15
Gene No.	43646	Strand	-
Start	3537	End	4872
Name	OJ991027_13.0131.C15.o3.gp	Method	AAT/GAP
Start	4107	End	4431
GI	3761584	Score	607
Exons	4107..4431		
GI Descrip.	3193316 1.0e-37 (AF069299) contains similarity to nucleotide sugar epimerases [Arabidopsis thaliana]		

Seq. No.	20905	Seq. ID	OJ991027_13.0131.C15
Gene No.	43646	Strand	-
Start	3537	End	4872
Name	OJ991027_13.0131.C15.o2.tm	Method	TBLASTX:Maize
Start	4374	End	4872

GI	none	Score	74
Exons	4374..4427, 4374..4871, 4375..4872		

Seq. No.	20906	Seq. ID	OJ991027_13.0131.C17
Gene No.	43647	Strand	-
Start	22	End	387
Name	OJ991027_13.0131.C17.o1.gs	Method	GENSCAN
Start	22	End	387
GI	none	Score	.58
Exons	22..231, 288..387		

Start	1	End	2368
GI	6554486	Score	201
Exons	1..573, 2298..2368		
GI Descrip.	(AC012394) putative phytochrome A signaling protein [Arabidopsis thaliana]		

Seq. No.	20909	Seq. ID	OJ991217_09.0118.C2
Gene No.	43650	Strand	+
Start	1	End	11225
Name	OJ991217_09.0118.C2.o1.gs	Method	GENSCAN
Start	93	End	11133
GI	none	Score	.5
Exons	93..239, 256..428, 3970..4115, 6759..6970, 7044..7137, 7804..7887, 7896..8009, 8082..8140, 8426..11133		

Seq. No.	20909	Seq. ID	OJ991217_09.0118.C2
Gene No.	43650	Strand	+
Start	1	End	11225
Name	OJ991217_09.0118.C2.o2.np	Method	AAT/NAP
Start	7078	End	11225
GI	4680203	Score	1821
Exons	7078..7109, 8426..10000, 10043..10135, 10289..10519, 10796..11225		

GI Descrip. (AF114171) TNP2-like protein [Sorghum bicolor]

Seq. No.	20909	Seq. ID	OJ991217_09.0118.C2
Gene No.	43650	Strand	+
Start	1	End	11225
Name	OJ991217_09.0118.C2.o3.tw	Method	TBLASTX:Wheat
Start	8780	End	9331
GI	none	Score	218
Exons	8780..9178, 9019..9180, 9226..9321, 9227..9331		

Seq. No.	20909	Seq. ID	OJ991217_09.0118.C2
Gene No.	43650	Strand	+
Start	1	End	11225
Name	OJ991217_09.0118.C2.o1.ts	Method	TBLASTX:Soybean
Start	9059	End	9478
GI	none	Score	126
Exons	9059..9178, 9061..9180, 9229..9474, 9230..9478		

Seq. No.	20909	Seq. ID	OJ991217_09.0118.C2
Gene No.	43650	Strand	+
Start	1	End	11225
Name	OJ991217_09.0118.C2.o1.tc	Method	TBLASTX:Cress
Start	9226	End	9556
GI	none	Score	311
Exons	9226..9363, 9227..9556, 9400..9459, 9410..9514, 9481..9555		

Seq. No.	20909	Seq. ID	OJ991217_09.0118.C2
Gene No.	43650	Strand	+
Start	1	End	11225
Name	OJ991217_09.0118.C2.o2.tw	Method	TBLASTX:Wheat
Start	9344	End	9810
GI	none	Score	54
Exons	9344..9397, 9352..9387, 9398..9502, 9409..9495, 9503..9619, 9503..9604, 9507..9605, 9511..9681, 9622..9810, 9650..9805		

Seq. No.	20909	Seq. ID	OJ991217_09.0118.C2
Gene No.	43650	Strand	+
Start	1	End	11225
Name	OJ991217_09.0118.C2.o1.tm	Method	TBLASTX:Maize
Start	9401	End	9844
GI	none	Score	226
Exons	9401..9646, 9451..9642, 9650..9844		
Seq. No.	20909	Seq. ID	OJ991217_09.0118.C2
Gene No.	43650	Strand	+
Start	1	End	11225
Name	OJ991217_09.0118.C2.o2.ts	Method	TBLASTX:Soybean
Start	9679	End	9913
GI	none	Score	250
Exons	9679..9834, 9680..9913		
Seq. No.	20909	Seq. ID	OJ991217_09.0118.C2
Gene No.	43650	Strand	+
Start	1	End	11225
Name	OJ991217_09.0118.C2.o4.tw	Method	TBLASTX:Wheat
Start	10052	End	10402
GI	none	Score	183
Exons	10052..10282, 10081..10281, 10318..10401, 10319..10402		
Seq. No.	20909	Seq. ID	OJ991217_09.0118.C2
Gene No.	43650	Strand	+
Start	1	End	11225
Name	OJ991217_09.0118.C2.o3.tm	Method	TBLASTX:Maize
Start	10058	End	10273
GI	none	Score	166
Exons	10058..10204, 10085..10183, 10087..10194, 10211..10273		
Seq. No.	20909	Seq. ID	OJ991217_09.0118.C2
Gene No.	43650	Strand	+
Start	1	End	11225
Name	OJ991217_09.0118.C2.o2.tm	Method	TBLASTX:Maize
Start	10310	End	10795
GI	none	Score	296
Exons	10310..10795, 10327..10503, 10639..10788		
Seq. No.	20909	Seq. ID	OJ991217_09.0118.C2
Gene No.	43650	Strand	+
Start	1	End	11225
Name	OJ991217_09.0118.C2.o2.gp	Method	AAT/GAP
Start	10391	End	11225
GI	5002953	Score	996
Exons	10391..10522, 10781..11225		
GI Descrip.	4680203/gb AAD27566.1 AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]		
Seq. No.	20909	Seq. ID	OJ991217_09.0118.C2
Gene No.	43650	Strand	+
Start	1	End	11225
Name	OJ991217_09.0118.C2.o1.tw	Method	TBLASTX:Wheat
Start	10406	End	11224
GI	none	Score	476

Exons 10406..10948, 10450..10896, 10967..11128, 10984..11124,  
11132..11224, 11167..11223

Seq. No.	20909	Seq. ID	OJ991217_09.0118.C2
Gene No.	43650	Strand	+
Start	1	End	11225
Name	OJ991217_09.0118.C2.o2.tc	Method	TBLASTX:Cress
Start	10693	End	11119
GI	none	Score	209
Exons	10693..10896, 10697..10948, 10967..11119, 10984..11106		

Seq. No.	20910	Seq. ID	OJ991217_09.0118.C3
Gene No.	43651	Strand	+
Start	1	End	840
Name	OJ991217_09.0118.C3.o1.gp	Method	AAT/GAP
Start	1	End	840
GI	5002953	Score	595
Exons	1..179, 659..840		
GI Descrip.	4680203/gb AAD27566.1 AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	20910	Seq. ID	OJ991217_09.0118.C3
Gene No.	43651	Strand	+
Start	1	End	840
Name	OJ991217_09.0118.C3.o1.np	Method	AAT/NAP
Start	1	End	726
GI	4680203	Score	341
Exons	1..726		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	20910	Seq. ID	OJ991217_09.0118.C3
Gene No.	43651	Strand	+
Start	1	End	840
Name	OJ991217_09.0118.C3.o1.gs	Method	GENSCAN
Start	82	End	702
GI	none	Score	.97
Exons	82..702		

Seq. No.	20910	Seq. ID	OJ991217_09.0118.C3
Gene No.	43652	Strand	-
Start	1065	End	1584
Name	OJ991217_09.0118.C3.o1.tw	Method	TBLASTX:Wheat
Start	76	End	615
GI	none	Score	44
Exons	76..117, 121..312, 156..296, 301..348, 352..393, 355..393, 417..494, 418..522, 523..615		

Seq. No.	20910	Seq. ID	OJ991217_09.0118.C3
Gene No.	43652	Strand	-
Start	1065	End	1584
Name	OJ991217_09.0118.C3.o2.gs	Method	GENSCAN
Start	1065	End	1584
GI	none	Score	.62
Exons	1065..1068, 1112..1154, 1515..1584		

Seq. No.	20911	Seq. ID	OJ991217_09.0118.C4
Gene No.	43653	Strand	+

Start 65  
 Name OJ991217\_09.0118.C4.o1.gs  
 Start 65  
 GI none  
 Exons 65..226

End 226  
 Method GENSCAN  
 End 226  
 Score .8

Seq. No. 20911  
 Gene No. 43654  
 Start 2293  
 Name OJ991217\_09.0118.C4.o2.gs  
 Start 2293  
 GI none  
 Exons 2293..2422, 2511..3244

Seq. ID OJ991217\_09.0118.C4  
 Strand +  
 End 3244  
 Method GENSCAN  
 End 3244  
 Score .98

Seq. No. 20912  
 Gene No. 43655  
 Start 63  
 Name OJ991217\_09.0118.C5.o1.gs  
 Start 63  
 GI none  
 Exons 63..348, 430..1262, 1682..1853, 2294..2332, 3024..3111, 3196..3287

Seq. ID OJ991217\_09.0118.C5  
 Strand +  
 End 3287  
 Method GENSCAN  
 End 3287  
 Score .55

Seq. No. 20912  
 Gene No. 43655  
 Start 63  
 Name OJ991217\_09.0118.C5.o1.gp  
 Start 1671  
 GI LIB3431-001-P1-N1-B5  
 Exons 1671..1853, 1959..2191

Seq. ID OJ991217\_09.0118.C5  
 Strand +  
 End 3287  
 Method AAT/GAP  
 End 2191  
 Score 762

GI Descrip. '4680203/gb|AAD27566.1|AF114171\_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]'

Seq. No. 20912  
 Gene No. 43656  
 Start 5183  
 Name OJ991217\_09.0118.C5.o2.gp  
 Start 5183  
 GI 5816516  
 Exons 5183..5532

Seq. ID OJ991217\_09.0118.C5  
 Strand +  
 End 5532  
 Method AAT/GAP  
 End 5532  
 Score 390

GI Descrip. 6006895/gb|AAF00670.1|AC008153\_22 3.0e-20 (AC008153) hypothetical protein [Arabidopsis thaliana]

Seq. No. 20912  
 Gene No. 43657  
 Start 4667  
 Name OJ991217\_09.0118.C5.o2.gs  
 Start 4667  
 GI none  
 Exons 4667..5062, 5497..5526, 6014..6040

Seq. ID OJ991217\_09.0118.C5  
 Strand -  
 End 6040  
 Method GENSCAN  
 End 6040  
 Score .48

Seq. No. 20912  
 Gene No. 43658  
 Start 8569  
 Name OJ991217\_09.0118.C5.o3.gs  
 Start 8569  
 GI none

Seq. ID OJ991217\_09.0118.C5  
 Strand -  
 End 9194  
 Method GENSCAN  
 End 9194  
 Score .77

Exons 8569..8831, 8908..9031, 9074..9194

Seq. No.	20913	Seq. ID	OJ991217_09.0118.C6
Gene No.	43659	Strand	+
Start	772	End	1086
Name	OJ991217_09.0118.C6.ol.gs	Method	GENSCAN
Start	772	End	1086
GI	none	Score	.61
Exons	772..1086		

Seq. No.	20913	Seq. ID	OJ991217_09.0118.C6
Gene No.	43660	Strand	-
Start	837	End	1254
Name	OJ991217_09.0118.C6.ol.np	Method	AAT/NAP
Start	837	End	1254
GI	2499708	Score	41
Exons	837..928, 1219..1254		
GI Descrip.	PHOSPHOLIPASE D PRECURSOR (PLD) (CHOLINE PHOSPHATASE) (PHOSPHATIDYLCHOLINE-HYDROLYZING PHOSPHOLIPASE D) gi 1020409 dbj BAA11135  (D73410) phospholipase D [Zea mays]		

Seq. No.	20914	Seq. ID	OJ991217_09.0118.C7
Gene No.	43661	Strand	-
Start	1326	End	1416
Name	OJ991217_09.0118.C7.ol.np	Method	AAT/NAP
Start	1326	End	1416
GI	140503	Score	107
Exons	1326..1416		
GI Descrip.	HYPOTHETICAL 14 KD PROTEIN IN YCF68 TRNI INTRON (ORF 133) gi 82518 pir  JQ0279 hypothetical 14.5K protein (trnI intron) - rice chloroplast gi 12041 emb CAA33945  (X15901) ORF133; ORF within trnI intron [Oryza sativa] gi 12061 emb CAA33915  (X15901) ORF133; ORF within trnI intron [Oryza sativa] gi 226660 prf  1603356CL trnI intron ORF 133 [Oryza sativa]		

Seq. No.	20914	Seq. ID	OJ991217_09.0118.C7
Gene No.	43662	Strand	-
Start	2435	End	3948
Name	OJ991217_09.0118.C7.ol.tm	Method	TBLASTX:Maize
Start	1334	End	1769
GI	none	Score	205
Exons	1334..1465, 1335..1460, 1336..1461, 1468..1569, 1468..1569, 1555..1629, 1570..1629, 1642..1767, 1643..1768, 1643..1768, 1659..1769		

Seq. No.	20914	Seq. ID	OJ991217_09.0118.C7
Gene No.	43662	Strand	-
Start	2435	End	3948
Name	OJ991217_09.0118.C7.ol.gp	Method	AAT/GAP
Start	2435	End	3948
GI	uC-osflcyp126e08b1	Score	932
Exons	2435..2684, 3721..3948		
GI Descrip.	'4680203/gb AAD27566.1 AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	20914	Seq. ID	OJ991217_09.0118.C7
Gene No.	43663	Strand	



Start	3987	End	4546
Name	OJ991217_09.0118.C7.o2.tm	Method	TBLASTX:Maize
Start	3987	End	4546
GI	none	Score	138
Exons	3987..4094, 3988..4200, 3989..4120, 3995..4201, 4270..4308, 4292..4357, 4293..4358, 4399..4545, 4400..4546		

Seq. No.	20915	Seq. ID	OJ991217_09.0118.C8
Gene No.	43664	Strand	+
Start	3979	End	8847
Name	OJ991217_09.0118.C8.o2.np	Method	AAT/NAP
Start	3979	End	8847
GI	1946366	Score	138
Exons	3979..4134, 8257..8368, 8763..8847		
GI Descrip.	(U93215) unknown protein [Arabidopsis thaliana]		

Seq. No.	20915	Seq. ID	OJ991217_09.0118.C8
Gene No.	43665	Strand	-
Start	1	End	5104
Name	OJ991217_09.0118.C8.o1.np	Method	AAT/NAP
Start	1	End	3701
GI	4587517	Score	499
Exons	1..21, 1504..1726, 1801..1894, 2766..2879, 3024..3215, 3325..3406, 3510..3701		
GI Descrip.	(AC007060) T5I8.6 [Arabidopsis thaliana]		

Seq. No.	20915	Seq. ID	OJ991217_09.0118.C8
Gene No.	43665	Strand	-
Start	1	End	5104
Name	OJ991217_09.0118.C8.o2.gs	Method	GENSCAN
Start	2071	End	5104
GI	none	Score	.59
Exons	2071..2322, 2766..2879, 3024..3174, 3510..3701, 4003..4463, 5102..5104		

Seq. No.	20915	Seq. ID	OJ991217_09.0118.C8
Gene No.	43666	Strand	-
Start	8002	End	8527
Name	OJ991217_09.0118.C8.o1.ts	Method	TBLASTX:Soybean
Start	1557	End	1703
GI	none	Score	108
Exons	1557..1697, 1566..1703, 1579..1701		

Seq. No.	20915	Seq. ID	OJ991217_09.0118.C8
Gene No.	43666	Strand	-
Start	8002	End	8527
Name	OJ991217_09.0118.C8.o1.tc	Method	TBLASTX:Cress
Start	3021	End	3408
GI	none	Score	104
Exons	3021..3200, 3022..3201, 3304..3408		

Seq. No.	20915	Seq. ID	OJ991217_09.0118.C8
Gene No.	43666	Strand	-
Start	8002	End	8527
Name	OJ991217_09.0118.C8.o3.gs	Method	GENSCAN
Start	8002	End	8527
GI	none	Score	.47

Exons 8002..8342, 8443..8527

Seq. No. 20916 Seq. ID OJ991217\_09.0118.C9  
Gene No. 43667 Strand +  
Start 1 End 3269  
Name OJ991217\_09.0118.C9.o1.np Method AAT/NAP  
Start 1 End 3269  
GI 1946366 Score 420  
Exons 1..46, 260..323, 357..439, 776..940, 1946..2153, 3232..3269  
GI Descrip. (U93215) unknown protein [Arabidopsis thaliana]

Seq. No. 20916 Seq. ID OJ991217\_09.0118.C9  
Gene No. 43667 Strand +  
Start 1 End 3269  
Name OJ991217\_09.0118.C9.o1.gp Method AAT/GAP  
Start 17 End 760  
GI 32497\_1.R1084 Score 973  
Exons 17..46, 260..760  
GI Descrip. '5852170/emb|AL117265.1|OST17804 2.0e-10 Oryza sativa  
indica(GLA4) genomic DNA, chromosome 4, BAC clone:tl7804'

Seq. No. 20916 Seq. ID OJ991217\_09.0118.C9  
Gene No. 43667 Strand +  
Start 1 End 3269  
Name OJ991217\_09.0118.C9.o1.gs Method GENSCAN  
Start 260 End 2908  
GI none Score .86  
Exons 260..439, 776..940, 1946..2248, 2259..2410, 2505..2661,  
2807..2908

Seq. No. 20916 Seq. ID OJ991217\_09.0118.C9  
Gene No. 43668 Strand +  
Start 9297 End 10570  
Name OJ991217\_09.0118.C9.o4.gs Method GENSCAN  
Start 9297 End 10570  
GI none Score .82  
Exons 9297..9782, 9827..10570

Seq. No. 20916 Seq. ID OJ991217\_09.0118.C9  
Gene No. 43669 Strand -  
Start 3367 End 10130  
Name OJ991217\_09.0118.C9.o1.tm Method TBLASTX:Maize  
Start 777 End 2134  
GI none Score 163  
Exons 777..938, 777..938, 778..939, 827..943, 827..943, 1944..2132,  
1945..2133, 1946..2134

Seq. No. 20916 Seq. ID OJ991217\_09.0118.C9  
Gene No. 43669 Strand -  
Start 3367 End 10130  
Name OJ991217\_09.0118.C9.o1.ts Method TBLASTX:Soybean  
Start 822 End 2119  
GI none Score 153  
Exons 822..941, 827..943, 1946..2119, 1957..2073, 1970..2119

Seq. No. 20916 Seq. ID OJ991217\_09.0118.C9  
Gene No. 43669 Strand -

Start	3367	End	10130
Name	OJ991217_09.0118.C9.o3.np	Method	AAT/NAP
Start	3367	End	10130
GI	6705984	Score	290
Exons	3367..3396, 7815..8479, 10072..10130		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		

Seq. No.	20916	Seq. ID	OJ991217_09.0118.C9
Gene No.	43669	Strand	-
Start	3367	End	10130
Name	OJ991217_09.0118.C9.o2.gs	Method	GENSCAN
Start	4997	End	6058
GI	none	Score	.8
Exons	4997..5190, 5465..5615, 5801..6058		

Seq. No.	20916	Seq. ID	OJ991217_09.0118.C9
Gene No.	43669	Strand	-
Start	3367	End	10130
Name	OJ991217_09.0118.C9.o2.np	Method	AAT/NAP
Start	5053	End	7853
GI	6498436	Score	367
Exons	5053..5204, 5414..5652, 5896..6032, 6128..6609, 7703..7853		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	20916	Seq. ID	OJ991217_09.0118.C9
Gene No.	43669	Strand	-
Start	3367	End	10130
Name	OJ991217_09.0118.C9.o1.tw	Method	TBLASTX:Wheat
Start	8126	End	8548
GI	none	Score	107
Exons	8126..8548, 8253..8471		

Seq. No.	20917	Seq. ID	OJ991217_09.0118.C10
Gene No.	43670	Strand	+
Start	1	End	158
Name	OJ991217_09.0118.C10.o1.np	Method	AAT/NAP
Start	1	End	158
GI	4587517	Score	71
Exons	1..158		
GI Descrip.	(AC007060) T5I8.6 [Arabidopsis thaliana]		

Seq. No.	20917	Seq. ID	OJ991217_09.0118.C10
Gene No.	43671	Strand	+
Start	84	End	194
Name	OJ991217_09.0118.C10.o1.tm	Method	TBLASTX:Maize
Start	1	End	194
GI	none	Score	206
Exons	1..156, 3..158, 3..194		

Seq. No.	20917	Seq. ID	OJ991217_09.0118.C10
Gene No.	43671	Strand	+
Start	84	End	194
Name	OJ991217_09.0118.C10.o1.gs	Method	GENSCAN
Start	84	End	158
GI	none	Score	.51
Exons	84..158		

Seq. No.	20918	Seq. ID	OJ991217_09.0118.C11
Gene No.	43672	Strand	+
Start	342	End	441
Name	OJ991217_09.0118.C11.o1.gs	Method	GENSCAN
Start	342	End	441
GI	none	Score	.83
Exons	342..441		

Seq. No.	20919	Seq. ID	OJ991217_09.0118.C13
Gene No.	43673	Strand	+
Start	2146	End	4389
Name	OJ991217_09.0118.C13.o2.np	Method	AAT/NAP
Start	2146	End	4389
GI	2213632	Score	372
Exons	2146..2656, 4372..4389		
GI Descrip.	(AC000103) F21J9.24 [Arabidopsis thaliana]		

Seq. No.	20919	Seq. ID	OJ991217_09.0118.C13
Gene No.	43674	Strand	-
Start	1	End	1129
Name	OJ991217_09.0118.C13.o1.np	Method	AAT/NAP
Start	1	End	1129
GI	6069646	Score	313
Exons	1..33, 400..1129		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	20919	Seq. ID	OJ991217_09.0118.C13
Gene No.	43675	Strand	-
Start	3046	End	15319
Name	OJ991217_09.0118.C13.o3.tw	Method	TBLASTX:Wheat
Start	148	End	558
GI	none	Score	66
Exons	148..276, 262..558, 377..523		

Seq. No.	20919	Seq. ID	OJ991217_09.0118.C13
Gene No.	43675	Strand	-
Start	3046	End	15319
Name	OJ991217_09.0118.C13.o4.tm	Method	TBLASTX:Maize
Start	806	End	1093
GI	none	Score	125
Exons	806..1093, 807..1064		

Seq. No.	20919	Seq. ID	OJ991217_09.0118.C13
Gene No.	43675	Strand	-
Start	3046	End	15319
Name	OJ991217_09.0118.C13.o3.tm	Method	TBLASTX:Maize
Start	2098	End	2528
GI	none	Score	272
Exons	2098..2427, 2237..2311, 2286..2426, 2444..2515, 2445..2528		

Seq. No.	20919	Seq. ID	OJ991217_09.0118.C13
Gene No.	43675	Strand	-
Start	3046	End	15319

Name	OJ991217_09.0118.C13.o2.tw	Method	TBLASTX:Wheat
Start	2260	End	2642
GI	none	Score	187
Exons	2260..2424, 2271..2423, 2429..2641, 2430..2642		

Seq. No.	20919	Seq. ID	OJ991217_09.0118.C13
Gene No.	43675	Strand	-
Start	3046	End	15319
Name	OJ991217_09.0118.C13.o1.gp	Method	AAT/GAP
Start	3046	End	5506
GI	72356_1.R1084	Score	1180
Exons	3046..3378, 3465..3569, 5182..5259, 5369..5506		
GI Descrip.	'2529662 2.0e-50 (AC002535) putative small nuclear ribonucleoprotein, Sm D2 [Arabidopsis thaliana] >gi_3738278 (AC005309) putative small nuclear ribonucleoprotein, Sm D2 [Arabidopsis thaliana]'		

Seq. No.	20919	Seq. ID	OJ991217_09.0118.C13
Gene No.	43675	Strand	-
Start	3046	End	15319
Name	OJ991217_09.0118.C13.o1.tc	Method	TBLASTX:Cress
Start	3248	End	5257
GI	none	Score	167
Exons	3248..3379, 3261..3380, 3262..3381, 3263..3379, 3270..3380, 3461..3571, 3462..3590, 3463..3573, 3465..3587, 5179..5256, 5180..5257		

Seq. No.	20919	Seq. ID	OJ991217_09.0118.C13
Gene No.	43675	Strand	-
Start	3046	End	15319
Name	OJ991217_09.0118.C13.o1.ts	Method	TBLASTX:Soybean
Start	3257	End	5257
GI	none	Score	174
Exons	3257..3379, 3260..3379, 3262..3411, 3262..3381, 3438..3572, 3462..3590, 3463..3573, 5179..5256, 5180..5257		

Seq. No.	20919	Seq. ID	OJ991217_09.0118.C13
Gene No.	43675	Strand	-
Start	3046	End	15319
Name	OJ991217_09.0118.C13.o1.tw	Method	TBLASTX:Wheat
Start	3259	End	5259
GI	none	Score	202
Exons	3259..3381, 3260..3379, 3261..3410, 3452..3571, 3462..3590, 3463..3570, 3465..3572, 5179..5259, 5180..5257		

Seq. No.	20919	Seq. ID	OJ991217_09.0118.C13
Gene No.	43675	Strand	-
Start	3046	End	15319
Name	OJ991217_09.0118.C13.o2.tm	Method	TBLASTX:Maize
Start	3259	End	5254
GI	none	Score	202
Exons	3259..3381, 3260..3379, 3261..3410, 3262..3411, 3460..3570, 3461..3580, 3462..3590, 3463..3570, 5179..5235, 5179..5253, 5180..5254		

Seq. No.	20919	Seq. ID	OJ991217_09.0118.C13
Gene No.	43675	Strand	-

Start	3046	End	15319
Name	OJ991217_09.0118.C13.o3.np	Method	AAT/NAP
Start	3265	End	5398
GI	3738278	Score	420
Exons	3265..3378, 3465..3569, 5182..5256, 5369..5398		
GI Descrip.	(AC005309) putative small nuclear ribonucleoprotein D2 [Arabidopsis thaliana]		

Seq. No.	20919	Seq. ID	OJ991217_09.0118.C13
Gene No.	43675	Strand	-
Start	3046	End	15319
Name	OJ991217_09.0118.C13.o5.np	Method	AAT/NAP
Start	3583	End	13707
GI	227927	Score	28
Exons	3583..3651, 5415..5491, 8269..8320, 8492..8635, 10964..11090, 13538..13707		
GI Descrip.	extensin [Brassica napus]		

Seq. No.	20919	Seq. ID	OJ991217_09.0118.C13
Gene No.	43675	Strand	-
Start	3046	End	15319
Name	OJ991217_09.0118.C13.o4.np	Method	AAT/NAP
Start	5988	End	6286
GI	862343	Score	93
Exons	5988..6079, 6128..6286		
GI Descrip.	(L10908) Gcap1 gene product [Mus musculus] gi 1092097 prf  2022314A granule cell marker protein [Mus musculus] gi 1092098 prf  2022315A granule cell marker protein [Mus musculus]		

Seq. No.	20919	Seq. ID	OJ991217_09.0118.C13
Gene No.	43675	Strand	-
Start	3046	End	15319
Name	OJ991217_09.0118.C13.o2.gp	Method	AAT/GAP
Start	6016	End	6213
GI	LIB3477-003-P1-K1-E9	Score	97
Exons	6016..6078, 6169..6213		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	20919	Seq. ID	OJ991217_09.0118.C13
Gene No.	43675	Strand	-
Start	3046	End	15319
Name	OJ991217_09.0118.C13.o6.np	Method	AAT/NAP
Start	12723	End	15319
GI	479357	Score	1247
Exons	12723..12784, 13904..15319		
GI Descrip.	hypothetical protein 612 - maize transposon MuA2 gi 22375 emb CAA44165  (X62251) ORF [Zea mays]		

Seq. No.	20919	Seq. ID	OJ991217_09.0118.C13
Gene No.	43675	Strand	-
Start	3046	End	15319
Name	OJ991217_09.0118.C13.o1.tm	Method	TBLASTX:Maize
Start	14135	End	14912
GI	none	Score	72

Exons 14135..14194, 14140..14190, 14194..14361, 14207..14308,  
14352..14651, 14361..14642, 14640..14912, 14656..14904

Seq. No. 20919 Seq. ID OJ991217\_09.0118.C13  
Gene No. 43675 Strand -  
Start 3046 End 15319  
Name OJ991217\_09.0118.C13.o5.tm Method TBLASTX:Maize  
Start 14964 End 15319  
GI none Score 106  
Exons 14964..15014, 15011..15052, 15058..15318, 15062..15319

Seq. No. 20920 Seq. ID OJ991217\_09.0118.C14  
Gene No. 43676 Strand -  
Start 443 End 1066  
Name OJ991217\_09.0118.C14.o1.gs Method GENSCAN  
Start 443 End 1066  
GI none Score .61  
Exons 443..1066

Seq. No. 20921 Seq. ID OJ991217\_09.0118.C15  
Gene No. 43677 Strand +  
Start 1317 End 2164  
Name OJ991217\_09.0118.C15.o2.gs Method GENSCAN  
Start 1317 End 2164  
GI none Score .42  
Exons 1317..1385, 1652..1830, 2101..2164

Seq. No. 20921 Seq. ID OJ991217\_09.0118.C15  
Gene No. 43678 Strand -  
Start 1 End 774  
Name OJ991217\_09.0118.C15.o1.np Method AAT/NAP  
Start 1 End 774  
GI 5902444 Score 695  
Exons 1..774  
GI Descrip. (AB030283). GAG-POL precursor [Oryza sativa]

Seq. No. 20921 Seq. ID OJ991217\_09.0118.C15  
Gene No. 43678 Strand -  
Start 1 End 774  
Name OJ991217\_09.0118.C15.o1.gs Method GENSCAN  
Start 281 End 774  
GI none Score .5  
Exons 281..659, 684..774

Seq. No. 20922 Seq. ID OJ991217\_09.0118.C16  
Gene No. 43679 Strand +  
Start 69 End 2272  
Name OJ991217\_09.0118.C16.o1.np Method AAT/NAP  
Start 69 End 2272  
GI 6460682 Score 135  
Exons 69..131, 325..614, 1641..1749, 2204..2272  
GI Descrip. (AE001863) NADPH quinone oxidoreductase, putative [Deinococcus radiodurans]

Seq. No. 20922 Seq. ID OJ991217\_09.0118.C16  
Gene No. 43679 Strand +  
Start 69 End 2272

Name	OJ991217_09.0118.C16.o1.tc	Method	TBLASTX:Cress
Start	259	End	1752
GI	none	Score	378
Exons	259..615, 357..602, 1641..1751, 1642..1752		
Seq. No.	20922	Seq. ID	OJ991217_09.0118.C16
Gene No.	43679	Strand	+
Start	69	End	2272
Name	OJ991217_09.0118.C16.o1.ts	Method	TBLASTX:Soybean
Start	262	End	615
GI	none	Score	58
Exons	262..312, 352..615, 357..605		
Seq. No.	20922	Seq. ID	OJ991217_09.0118.C16
Gene No.	43679	Strand	+
Start	69	End	2272
Name	OJ991217_09.0118.C16.o1.tm	Method	TBLASTX:Maize
Start	264	End	1752
GI	none	Score	487
Exons	264..617, 268..615, 1641..1751, 1642..1752, 1642..1752		
Seq. No.	20922	Seq. ID	OJ991217_09.0118.C16
Gene No.	43679	Strand	+
Start	69	End	2272
Name	OJ991217_09.0118.C16.o1.tw	Method	TBLASTX:Wheat
Start	265	End	558
GI	none	Score	340
Exons	265..501, 265..324, 267..500, 462..557, 463..558		
Seq. No.	20922	Seq. ID	OJ991217_09.0118.C16
Gene No.	43679	Strand	+
Start	69	End	2272
Name	OJ991217_09.0118.C16.o1.gp	Method	AAT/GAP
Start	302	End	1753
GI	uC-osrocyp015d08b1	Score	809
Exons	302..614, 1641..1753		
GI Descrip.	'416966/sp Q03132 ERY2_SACER 4.0e-15 ERYTHRONOLIDE SYNTHASE, MODULES 3 AND 4 (ORF 2) (6-DEOXYERYTHRONOLIDE B SYNTHASE II) (DEBS 2) >gi_152694 (M63677) eryA ORF2 encoding modules 3 & 4 for 6-deoxyerythronolide B formation6-deoxyerythronolide B formation; putative [Saccharopolyspora erythraea]'		
Seq. No.	20923	Seq. ID	OJ991217_09.0118.C17
Gene No.	43680	Strand	+
Start	271	End	4278
Name	OJ991217_09.0118.C17.o1.gp	Method	AAT/GAP
Start	271	End	1856
GI	15854_1.R1084	Score	1099
Exons	271..296, 583..757, 1431..1856		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		
Seq. No.	20923	Seq. ID	OJ991217_09.0118.C17
Gene No.	43680	Strand	+
Start	271	End	4278
Name	OJ991217_09.0118.C17.o1.np	Method	AAT/NAP
Start	1282	End	4275



GI 3128231 Score 1039  
 Exons 1282..1315, 2585..3232, 3330..4275  
 GI Descrip. (AC004077) hypothetical protein [Arabidopsis thaliana]

Seq. No. 20923 Seq. ID OJ991217\_09.0118.C17  
 Gene No. 43680 Strand +  
 Start 271 End 4278  
 Name OJ991217\_09.0118.C17.o1.gs Method GENSCAN  
 Start 1756 End 4278  
 GI none Score .7  
 Exons 1756..1822, 2298..2614, 2700..3232, 3321..4278

Seq. No. 20923 Seq. ID OJ991217\_09.0118.C17  
 Gene No. 43681 Strand +  
 Start 5615 End 5879  
 Name OJ991217\_09.0118.C17.o2.gp Method AAT/GAP  
 Start 5615 End 5879  
 GI none Score 381  
 Exons 5615..5879

Seq. No. 20923 Seq. ID OJ991217\_09.0118.C17  
 Gene No. 43682 Strand +  
 Start 8262 End 15514  
 Name OJ991217\_09.0118.C17.o3.gs Method GENSCAN  
 Start 8262 End 15514  
 GI none Score .52  
 Exons 8262..8322, 9617..9874, 10120..10251, 11226..11511,  
 12277..12567, 12923..13073, 13665..14673, 14748..15514

Seq. No. 20923 Seq. ID OJ991217\_09.0118.C17  
 Gene No. 43682 Strand +  
 Start 8262 End 15514  
 Name OJ991217\_09.0118.C17.o2.np Method AAT/NAP  
 Start 11096 End 15511  
 GI 4234852 Score 4056  
 Exons 11096..11256, 11299..11550, 11830..15511  
 GI Descrip. (AF082133) gag-pol polyprotein [Zea mays]

Seq. No. 20923 Seq. ID OJ991217\_09.0118.C17  
 Gene No. 43683 Strand -  
 Start 5879 End 19886  
 Name OJ991217\_09.0118.C17.o8.tm Method TBLASTX:Maize  
 Start 601 End 1531  
 GI none Score 154  
 Exons 601..759, 605..760, 605..757, 613..759, 1419..1496, 1425..1520,  
 1430..1531, 1436..1516

Seq. No. 20923 Seq. ID OJ991217\_09.0118.C17  
 Gene No. 43683 Strand -  
 Start 5879 End 19886  
 Name OJ991217\_09.0118.C17.o5.tc Method TBLASTX:Cress  
 Start 605 End 1493  
 GI none Score 193  
 Exons 605..763, 613..747, 1428..1493, 1429..1488

Seq. No. 20923 Seq. ID OJ991217\_09.0118.C17  
 Gene No. 43683 Strand -

Start	5879	End	19886
Name	OJ991217_09.0118.C17.o1.tc	Method	TBLASTX:Cress
Start	2754	End	18263
GI	none	Score	77
Exons	2754..2921, 2769..2927, 2820..3056, 2859..2987, 2994..3230, 3012..3233, 3095..3229, 3331..3813, 3403..3663, 3519..3770, 3559..3696, 18048..18263		

Seq. No.	20923	Seq. ID	OJ991217_09.0118.C17
Gene No.	43683	Strand	-
Start	5879	End	19886
Name	OJ991217_09.0118.C17.o2.tm	Method	TBLASTX:Maize
Start	2754	End	19886
GI	none	Score	106
Exons	2754..2993, 2769..3233, 2817..3032, 2829..2918, 2831..2920, 2976..3233, 2990..3232, 3331..3474, 3331..3774, 3385..3693, 3394..3684, 3516..3662, 3525..3650, 3691..4239, 18291..18383, 18387..18584, 19224..19376, 19719..19886		

Seq. No.	20923	Seq. ID	OJ991217_09.0118.C17
Gene No.	43683	Strand	-
Start	5879	End	19886
Name	OJ991217_09.0118.C17.o3.tw	Method	TBLASTX:Wheat
Start	2994	End	3831
GI	none	Score	145
Exons	2994..3233, 3119..3244, 3334..3441, 3358..3687, 3373..3459, 3507..3662, 3691..3831, 3700..3774		

Seq. No.	20923	Seq. ID	OJ991217_09.0118.C17
Gene No.	43683	Strand	-
Start	5879	End	19886
Name	OJ991217_09.0118.C17.o3.ts	Method	TBLASTX:Soybean
Start	3331	End	19586
GI	none	Score	111
Exons	3331..3606, 17922..18347, 18006..18452, 18066..18560, 18067..18270, 18070..18345, 18099..18428, 18100..18546, 18171..18662, 18172..18264, 18289..18627, 18319..18663, 18378..18872, 18507..18977, 18696..19004, 18798..19004, 19191..19556, 19224..19571, 19225..19560, 19230..19457, 19267..19458, 19278..19586		

Seq. No.	20923	Seq. ID	OJ991217_09.0118.C17
Gene No.	43683	Strand	-
Start	5879	End	19886
Name	OJ991217_09.0118.C17.o2.ts	Method	TBLASTX:Soybean
Start	3691	End	19865
GI	none	Score	322
Exons	3691..4218, 19734..19865		

Seq. No.	20923	Seq. ID	OJ991217_09.0118.C17
Gene No.	43683	Strand	-
Start	5879	End	19886
Name	OJ991217_09.0118.C17.o3.tc	Method	TBLASTX:Cress
Start	3813	End	4230
GI	none	Score	231
Exons	3813..4157, 3814..4230		

Seq. No.	20923	Seq. ID	OJ991217_09.0118.C17
Gene No.	43683	Strand	-
Start	5879	End	19886
Name	OJ991217_09.0118.C17.o2.gs	Method	GENSCAN
Start	5879	End	7702
GI	none	Score	1
Exons	5879..7702		

Seq. No.	20923	Seq. ID	OJ991217_09.0118.C17
Gene No.	43683	Strand	-
Start	5879	End	19886
Name	OJ991217_09.0118.C17.o3.tm	Method	TBLASTX:Maize
Start	11188	End	12420
GI	none	Score	280
Exons	11188..11535, 11189..11548, 11825..12049, 11830..12039, 12134..12223, 12163..12204, 12328..12378, 12328..12420		

Seq. No.	20923	Seq. ID	OJ991217_09.0118.C17
Gene No.	43683	Strand	-
Start	5879	End	19886
Name	OJ991217_09.0118.C17.o4.ts	Method	TBLASTX:Soybean
Start	12743	End	13085
GI	none	Score	272
Exons	12743..12916, 12744..13085		

Seq. No.	20923	Seq. ID	OJ991217_09.0118.C17
Gene No.	43683	Strand	-
Start	5879	End	19886
Name	OJ991217_09.0118.C17.o2.tw	Method	TBLASTX:Wheat
Start	12861	End	13522
GI	none	Score	226
Exons	12861..13094, 12875..13093, 13139..13444, 13162..13422, 13423..13497, 13424..13522		

Seq. No.	20923	Seq. ID	OJ991217_09.0118.C17
Gene No.	43683	Strand	-
Start	5879	End	19886
Name	OJ991217_09.0118.C17.o5.ts	Method	TBLASTX:Soybean
Start	13139	End	13525
GI	none	Score	178
Exons	13139..13348, 13141..13320, 13196..13348, 13352..13525		

Seq. No.	20923	Seq. ID	OJ991217_09.0118.C17
Gene No.	43683	Strand	-
Start	5879	End	19886
Name	OJ991217_09.0118.C17.o6.tm	Method	TBLASTX:Maize
Start	13139	End	13516
GI	none	Score	163
Exons	13139..13348, 13196..13246, 13354..13437, 13355..13432, 13445..13516		

Seq. No.	20923	Seq. ID	OJ991217_09.0118.C17
Gene No.	43683	Strand	-
Start	5879	End	19886
Name	OJ991217_09.0118.C17.o1.ts	Method	TBLASTX:Soybean
Start	14037	End	14474
GI	5509260	Score	357

Exons 14037..14474, 14123..14398  
GI Descrip. -

Seq. No. 20923  
Gene No. 43683  
Start 5879  
Name OJ991217\_09.0118.C17.o4.tm  
Start 14037  
GI none  
Exons 14037..14345, 14045..14344

Seq. ID OJ991217\_09.0118.C17  
Strand -  
End 19886  
Method TBLASTX:Maize  
End 14345  
Score 277

Seq. No. 20923  
Gene No. 43683  
Start 5879  
Name OJ991217\_09.0118.C17.o2.tc  
Start 14123  
GI none  
Exons 14123..14362, 14124..14384

Seq. ID OJ991217\_09.0118.C17  
Strand -  
End 19886  
Method TBLASTX:Cress  
End 14384  
Score 248

Seq. No. 20923  
Gene No. 43683  
Start 5879  
Name OJ991217\_09.0118.C17.o1.tw  
Start 14165  
GI none  
Exons 14165..14512, 14166..14510, 14166..14519, 14495..14782, 14496..14819, 14580..14801, 14807..14911, 14809..14907

Seq. ID OJ991217\_09.0118.C17  
Strand -  
End 19886  
Method TBLASTX:Wheat  
End 14911  
Score 355

Seq. No. 20923  
Gene No. 43683  
Start 5879  
Name OJ991217\_09.0118.C17.o7.tm  
Start 14346  
GI none  
Exons 14346..14699

Seq. ID OJ991217\_09.0118.C17  
Strand -  
End 19886  
Method TBLASTX:Maize  
End 14699  
Score 223

Seq. No. 20923  
Gene No. 43683  
Start 5879  
Name OJ991217\_09.0118.C17.o5.tm  
Start 14897  
GI none  
Exons 14897..15076, 15080..15235, 15281..15472

Seq. ID OJ991217\_09.0118.C17  
Strand -  
End 19886  
Method TBLASTX:Maize  
End 15472  
Score 116

Seq. No. 20923  
Gene No. 43683  
Start 5879  
Name OJ991217\_09.0118.C17.o6.ts  
Start 14897  
GI none  
Exons 14897..15076, 15092..15235, 15266..15457

Seq. ID OJ991217\_09.0118.C17  
Strand -  
End 19886  
Method TBLASTX:Soybean  
End 15457  
Score 119

Seq. No. 20923  
Gene No. 43683  
Start 5879  
Name OJ991217\_09.0118.C17.o4.tw  
Start 15067

Seq. ID OJ991217\_09.0118.C17  
Strand -  
End 19886  
Method TBLASTX:Wheat  
End 15460

GI	none	Score	149
Exons	15067..15237, 15083..15235, 15254..15460		
Seq. No.	20923	Seq. ID	OJ991217_09.0118.C17
Gene No.	43683	Strand	-
Start	5879	End	19886
Name	OJ991217_09.0118.C17.o1.tm	Method	TBLASTX:Maize
Start	15835	End	16406
GI	none	Score	69
Exons	15835..15918, 15835..15927, 15845..15976, 15940..16017, 15973..16017, 16019..16147, 16020..16148, 16090..16185, 16148..16258, 16149..16259, 16155..16262, 16325..16405, 16326..16406		

Seq. No.	20923	Seq. ID	OJ991217_09.0118.C17
Gene No.	43683	Strand	-
Start	5879	End	19886
Name	OJ991217_09.0118.C17.o4.tc	Method	TBLASTX:Cress
Start	18312	End	19493
GI	none	Score	76
Exons	18312..18725, 18531..18875, 18636..18980, 19224..19466, 19341..19493		

Seq. No.	20924	Seq. ID	OJ991217_09.0118.C18
Gene No.	43684	Strand	+
Start	270	End	1594
Name	OJ991217_09.0118.C18.o1.gs	Method	GENSCAN
Start	270	End	1594
GI	none	Score	.51
Exons	270..337, 1420..1594		

Seq. No.	20924	Seq. ID	OJ991217_09.0118.C18
Gene No.	43685	Strand	+
Start	1592	End	2008
Name	OJ991217_09.0118.C18.o1.gp	Method	AAT/GAP
Start	1592	End	2008
GI	5816562	Score	650
Exons	1592..2008		
GI Descrip.	6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10		

Seq. No.	20924	Seq. ID	OJ991217_09.0118.C18
Gene No.	43686	Strand	+
Start	3044	End	5972
Name	OJ991217_09.0118.C18.o1.np	Method	AAT/NAP
Start	3044	End	5960
GI	6691716	Score	2494
Exons	3044..3932, 4130..4307, 4384..4489, 4566..4742, 4820..5007, 5082..5184, 5334..5447, 5521..5960		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6691717 dbj BAA89397.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	20924	Seq. ID	OJ991217_09.0118.C18
Gene No.	43686	Strand	+
Start	3044	End	5972
Name	OJ991217_09.0118.C18.o2.gs	Method	GENSCAN

Start	3044	End	5972
GI	none	Score	.91
Exons	3044..3435, 3727..3932, 4139..4307, 4384..4742, 4820..5007, 5082..5271, 5521..5972		

Seq. No.	20924	Seq. ID	OJ991217_09.0118.C18
Gene No.	43687	Strand	-
Start	5346	End	9421
Name	OJ991217_09.0118.C18.o3.tw	Method	TBLASTX:Wheat
Start	3164	End	3454
GI	none	Score	214
Exons	3164..3454		

Seq. No.	20924	Seq. ID	OJ991217_09.0118.C18
Gene No.	43687	Strand	-
Start	5346	End	9421
Name	OJ991217_09.0118.C18.o2.np	Method	AAT/NAP
Start	5346	End	9421
GI	4680183	Score	3363
Exons	5346..5449, 6950..9421		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	20924	Seq. ID	OJ991217_09.0118.C18
Gene No.	43687	Strand	-
Start	5346	End	9421
Name	OJ991217_09.0118.C18.o1.tw	Method	TBLASTX:Wheat
Start	6314	End	6928
GI	none	Score	95
Exons	6314..6445, 6437..6928, 6639..6767, 6749..6778, 6819..6908		

Seq. No.	20924	Seq. ID	OJ991217_09.0118.C18
Gene No.	43687	Strand	-
Start	5346	End	9421
Name	OJ991217_09.0118.C18.o1.tm	Method	TBLASTX:Maize
Start	6353	End	6616
GI	none	Score	102
Exons	6353..6454, 6354..6455, 6434..6616, 6435..6560		

Seq. No.	20924	Seq. ID	OJ991217_09.0118.C18
Gene No.	43687	Strand	-
Start	5346	End	9421
Name	OJ991217_09.0118.C18.o4.tw	Method	TBLASTX:Wheat
Start	6948	End	7220
GI	none	Score	73
Exons	6948..7220, 6978..7217		

Seq. No.	20924	Seq. ID	OJ991217_09.0118.C18
Gene No.	43687	Strand	-
Start	5346	End	9421
Name	OJ991217_09.0118.C18.o3.tm	Method	TBLASTX:Maize
Start	7610	End	7870
GI	none	Score	61
Exons	7610..7870, 7616..7864, 7665..7868		

Seq. No.	20924	Seq. ID	OJ991217_09.0118.C18
Gene No.	43687	Strand	-
Start	5346	End	9421

Name	OJ991217_09.0118.C18.o2.tw	Method	TBLASTX:Wheat
Start	7709	End	8111
GI	none	Score	127
Exons	7709..8110, 7842..8111		

Seq. No.	20924	Seq. ID	OJ991217_09.0118.C18
Gene No.	43688	Strand	
Start	12459	End	12729
Name	OJ991217_09.0118.C18.o2.tm	Method	TBLASTX:Maize
Start	12459	End	12729
GI	none	Score	79
Exons	12459..12701, 12460..12729, 12473..12703		

Seq. No.	20925	Seq. ID	OJ991117_02.0103.C1
Gene No.	43689	Strand	+
Start	489	End	7295
Name	OJ991117_02.0103.C1.o1.gs	Method	GENSCAN
Start	489	End	7295
GI	none	Score	.84
Exons	489..666, 731..984, 1259..1378, 1964..2062, 2353..2574, 2859..2998, 3379..3478, 3577..3624, 3781..3951, 4117..4200, 5011..5187, 5282..5419, 5514..5584, 5988..6087, 6452..6508, 6602..6682, 7209..7295		

Seq. No.	20925	Seq. ID	OJ991117_02.0103.C1
Gene No.	43689	Strand	+
Start	489	End	7295
Name	OJ991117_02.0103.C1.o1.np	Method	AAT/NAP
Start	492	End	7127
GI	5918016	Score	1349
Exons	492..666, 779..984, 1259..1378, 1964..2062, 2353..2574, 2859..2998, 3127..3277, 3781..3951, 4117..4183, 5015..5187, 5514..5584, 5988..6087, 6602..6682, 6765..6847, 6982..7127		
GI Descrip.	(AL035525) myosin-like protein [Arabidopsis thaliana]		

Seq. No.	20925	Seq. ID	OJ991117_02.0103.C1
Gene No.	43689	Strand	+
Start	489	End	7295
Name	OJ991117_02.0103.C1.o1.gp	Method	AAT/GAP
Start	5146	End	5584
GI	LIB3434-060-P1-K1-H5	Score	387
Exons	5146..5187, 5282..5419, 5514..5584		
GI Descrip.	'3063460 1.0e-44 (AC003981) F22013.22 [Arabidopsis thaliana]'		

Seq. No.	20925	Seq. ID	OJ991117_02.0103.C1
Gene No.	43689	Strand	+
Start	489	End	7295
Name	OJ991117_02.0103.C1.o2.gp	Method	AAT/GAP
Start	5549	End	6100
GI	LIB3434-060-P1-K1-H5	Score	235
Exons	5549..5584, 5988..6100		
GI Descrip.	'3063460 1.0e-44 (AC003981) F22013.22 [Arabidopsis thaliana]'		

Seq. No.	20925	Seq. ID	OJ991117_02.0103.C1
Gene No.	43690	Strand	-
Start	6925	End	7407
Name	OJ991117_02.0103.C1.o3.gp	Method	AAT/GAP

Start	6925	End	7407
GI	5109_1.R1084	Score	693
Exons	6925..7407		
GI Descrip.	'5918016/emb CAB36794.2  3.0e-09 (AL035525) myosin-like protein [Arabidopsis thaliana]'		

Seq. No.	20925	Seq. ID	OJ991117_02.0103.C1
Gene No.	43691	Strand	-
Start	8031	End	12418
Name	OJ991117_02.0103.C1.o3.tc	Method	TBLASTX:Cress
Start	435	End	6842
GI	none	Score	176
Exons	435..674, 482..682, 489..686, 778..984, 784..957, 823..984, 1253..1378, 3125..3199, 3777..3905, 3778..3954, 4018..4170, 6605..6688, 6762..6842		

Seq. No.	20925	Seq. ID	OJ991117_02.0103.C1
Gene No.	43691	Strand	-
Start	8031	End	12418
Name	OJ991117_02.0103.C1.o5.tm	Method	TBLASTX:Maize
Start	483	End	1378
GI	none	Score	154
Exons	483..623, 489..677, 778..984, 787..939, 1253..1378		

Seq. No.	20925	Seq. ID	OJ991117_02.0103.C1
Gene No.	43691	Strand	-
Start	8031	End	12418
Name	OJ991117_02.0103.C1.o6.tm	Method	TBLASTX:Maize
Start	3738	End	3909
GI	none	Score	183
Exons	3738..3908, 3784..3909		

Seq. No.	20925	Seq. ID	OJ991117_02.0103.C1
Gene No.	43691	Strand	-
Start	8031	End	12418
Name	OJ991117_02.0103.C1.o4.ts	Method	TBLASTX:Soybean
Start	3777	End	3927
GI	none	Score	205
Exons	3777..3917, 3778..3927		

Seq. No.	20925	Seq. ID	OJ991117_02.0103.C1
Gene No.	43691	Strand	-
Start	8031	End	12418
Name	OJ991117_02.0103.C1.o3.tm	Method	TBLASTX:Maize
Start	3910	End	5408
GI	none	Score	60
Exons	3910..3951, 3910..3945, 4045..4107, 4047..4121, 4067..4120, 4068..4121, 4107..4148, 4108..4179, 5007..5186, 5017..5187, 5021..5188, 5263..5406, 5264..5407, 5268..5408		

Seq. No.	20925	Seq. ID	OJ991117_02.0103.C1
Gene No.	43691	Strand	-
Start	8031	End	12418
Name	OJ991117_02.0103.C1.o2.tc	Method	TBLASTX:Cress
Start	5041	End	6490
GI	none	Score	184
Exons	5041..5187, 5046..5171, 5264..5416, 5517..5582, 5979..6110,		



5986..6087, 6304..6369, 6309..6368, 6452..6490

Seq. No.	20925	Seq. ID	OJ991117_02.0103.C1
Gene No.	43691	Strand	-
Start	8031	End	12418
Name	OJ991117_02.0103.C1.o3.ts	Method	TBLASTX:Soybean
Start	5080	End	7051
GI	none	Score	146
Exons	5080..5187, 5085..5168, 5264..5419, 5517..5582, 6980..7051		

Seq. No.	20925	Seq. ID	OJ991117_02.0103.C1
Gene No.	43691	Strand	-
Start	8031	End	12418
Name	OJ991117_02.0103.C1.o2.ts	Method	TBLASTX:Soybean
Start	5979	End	6847
GI	none	Score	62
Exons	5979..6086, 5985..6035, 5986..6087, 6284..6367, 6304..6369, 6309..6368, 6451..6507, 6452..6508, 6605..6691, 6605..6691, 6762..6845, 6764..6847		

Seq. No.	20925	Seq. ID	OJ991117_02.0103.C1
Gene No.	43691	Strand	-
Start	8031	End	12418
Name	OJ991117_02.0103.C1.o4.tm	Method	TBLASTX:Maize
Start	6342	End	7138
GI	none	Score	46
Exons	6342..6365, 6342..6368, 6451..6507, 6452..6508, 6582..6683, 6591..6668, 6602..6688, 6604..6684, 6605..6712, 6762..6845, 6763..6846, 6764..6859, 6764..6847, 6958..7026, 6980..7111, 6980..7138		

Seq. No.	20925	Seq. ID	OJ991117_02.0103.C1
Gene No.	43691	Strand	-
Start	8031	End	12418
Name	OJ991117_02.0103.C1.o2.gs	Method	GENSCAN
Start	8031	End	12418
GI	none	Score	.7
Exons	8031..8137, 8824..8885, 9420..10057, 11200..11336, 11432..11567, 11654..12103, 12315..12418		

Seq. No.	20925	Seq. ID	OJ991117_02.0103.C1
Gene No.	43691	Strand	-
Start	8031	End	12418
Name	OJ991117_02.0103.C1.o2.np	Method	AAT/NAP
Start	9346	End	12026
GI	4006829	Score	1008
Exons	9346..10057, 11200..11336, 11432..11567, 11654..12026		
GI Descrip.	(AC005970) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	20925	Seq. ID	OJ991117_02.0103.C1
Gene No.	43691	Strand	-
Start	8031	End	12418
Name	OJ991117_02.0103.C1.o4.gp	Method	AAT/GAP
Start	9533	End	10061
GI	42449_1.R1084	Score	992
Exons	9533..10061		
GI Descrip.	!4006829/gb AAC95171.1  4.0e-50 (AC005970) putative protein		

kinase [Arabidopsis thaliana]'

Seq. No.	20925	Seq. ID	OJ991117_02.0103.C1
Gene No.	43691	Strand	-
Start	8031	End	12418
Name	OJ991117_02.0103.C1.o1.ts	Method	TBLASTX:Soybean
Start	9581	End	11858
GI	none	Score	47
Exons	9581..9619, 9585..9620, 9638..10057, 9639..9833, 9899..10036, 9921..10058, 11198..11320, 11200..11328, 11431..11565, 11433..11564, 11654..11722, 11723..11857, 11724..11858		

Seq. No.	20925	Seq. ID	OJ991117_02.0103.C1
Gene No.	43691	Strand	-
Start	8031	End	12418
Name	OJ991117_02.0103.C1.o1.tm	Method	TBLASTX:Maize
Start	9632	End	10045
GI	none	Score	84
Exons	9632..9772, 9635..10045, 9921..10043		

Seq. No.	20925	Seq. ID	OJ991117_02.0103.C1
Gene No.	43691	Strand	-
Start	8031	End	12418
Name	OJ991117_02.0103.C1.o1.tc	Method	TBLASTX:Cress
Start	9638	End	11857
GI	none	Score	141
Exons	9638..10057, 9918..10055, 11200..11322, 11201..11317, 11431..11568, 11433..11567, 11654..11707, 11733..11843, 11744..11857		

Seq. No.	20925	Seq. ID	OJ991117_02.0103.C1
Gene No.	43691	Strand	-
Start	8031	End	12418
Name	OJ991117_02.0103.C1.o1.tw	Method	TBLASTX:Wheat
Start	9665	End	10060
GI	none	Score	174
Exons	9665..10060, 9921..10058		

Seq. No.	20925	Seq. ID	OJ991117_02.0103.C1
Gene No.	43691	Strand	-
Start	8031	End	12418
Name	OJ991117_02.0103.C1.o2.tm	Method	TBLASTX:Maize
Start	11176	End	11807
GI	none	Score	68
Exons	11176..11298, 11198..11323, 11200..11328, 11405..11473, 11424..11564, 11431..11568, 11433..11567, 11654..11773, 11654..11806, 11697..11807		

Seq. No.	20925	Seq. ID	OJ991117_02.0103.C1
Gene No.	43691	Strand	-
Start	8031	End	12418
Name	OJ991117_02.0103.C1.o2.tw	Method	TBLASTX:Wheat
Start	11227	End	11794
GI	none	Score	153
Exons	11227..11337, 11228..11335, 11424..11543, 11425..11544, 11544..11567, 11654..11722, 11694..11717, 11723..11794, 11727..11792		

Seq. No.	20926	Seq. ID	OJ991117_02.0103.C2
Gene No.	43692	Strand	-
Start	306	End	552
Name	OJ991117_02.0103.C2.o1.gp	Method	AAT/GAP
Start	306	End	552
GI	8022_1.R1084	Score	329
Exons	306..552		
GI Descrip.	'5091496/dbj AB023482.2 AB023482 3.0e-37 Oryza sativa genomic DNA, chromosome 6, clone P0680A03, complete sequence'		

Seq. No.	20926	Seq. ID	OJ991117_02.0103.C2
Gene No.	43693	Strand	-
Start	7949	End	9784
Name	OJ991117_02.0103.C2.o2.gs	Method	GENSCAN
Start	7949	End	9784
GI	none	Score	.65
Exons	7949..8110, 8699..8789, 9387..9474, 9630..9784		

Seq. No.	20927	Seq. ID	OJ991117_02.0103.C3
Gene No.	43694	Strand	+
Start	214	End	1573
Name	OJ991117_02.0103.C3.o1.gs	Method	GENSCAN
Start	656	End	1573
GI	none	Score	.46
Exons	656..693, 1423..1573		

Seq. No.	20928	Seq. ID	OJ991117_02.0103.C4
Gene No.	43695	Strand	+
Start	99	End	6259
Name	OJ991117_02.0103.C4.o1.gs	Method	GENSCAN
Start	99	End	6002
GI	none	Score	.49
Exons	99..396, 676..786, 1024..1326, 1587..1722, 1961..2256, 2562..2768, 2774..2832, 2883..3042, 4205..4359, 4439..4540, 5495..5563, 5895..6002		

Seq. No.	20928	Seq. ID	OJ991117_02.0103.C4
Gene No.	43695	Strand	+
Start	99	End	6259
Name	OJ991117_02.0103.C4.o1.gp	Method	AAT/GAP
Start	2651	End	4510
GI	uC-osrocyp016e08b1	Score	927
Exons	2651..2768, 2883..3042, 4205..4359, 4439..4510		
GI Descrip.	'2501011/sp P73505 SYI_SYNY3 2.0e-15 ISOLEUCYL-TRNA SYNTHETASE (ISOLEUCINE--TRNA LIGASE) (ILERS) >gi_1652625_dbj_BAA17545_(D90907) isoleucyl-tRNA synthetase [Synechocystis sp.]'		

Seq. No.	20928	Seq. ID	OJ991117_02.0103.C4
Gene No.	43695	Strand	+
Start	99	End	6259
Name	OJ991117_02.0103.C4.o2.np	Method	AAT/NAP
Start	4210	End	6259
GI	2501011	Score	532
Exons	4210..4359, 4439..4540, 4972..5041, 5190..5302, 5495..5563, 5895..6002, 6215..6259		
GI Descrip.	ISOLEUCYL-TRNA SYNTHETASE (ISOLEUCINE--TRNA LIGASE) (ILERS)		

gi|1652625|dbj|BAA17545| (D90907) isoleucyl-tRNA synthetase  
[Synechocystis sp.]

Seq. No.	20928	Seq. ID	OJ991117_02.0103.C4
Gene No.	43695	Strand	+
Start	99	End	6259
Name	OJ991117_02.0103.C4.o2.gp	Method	AAT/GAP
Start	4958	End	6001
GI	uC-osflcyp019h01b1	Score	647
Exons	4958..5041, 5190..5302, 5495..5563, 5895..6001		
GI Descrip.	'2501011/sp P73505 SYI_SYNY3 4.0e-43 ISOLEUCYL-TRNA SYNTHETASE (ISOLEUCINE--TRNA LIGASE) (ILERS) >gi_1652625_dbj_BAA17545_ (D90907) isoleucyl-tRNA synthetase [Synechocystis sp.]'		

Seq. No.	20928	Seq. ID	OJ991117_02.0103.C4
Gene No.	43696	Strand	-
Start	569	End	1877
Name	OJ991117_02.0103.C4.o1.np	Method	AAT/NAP
Start	569	End	1877
GI	5777617	Score	80
Exons	569..666, 1856..1877		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	20928	Seq. ID	OJ991117_02.0103.C4
Gene No.	43696	Strand	-
Start	569	End	1877
Name	OJ991117_02.0103.C4.o1.tm	Method	TBLASTX:Maize
Start	1422	End	1733
GI	none	Score	40
Exons	1422..1484, 1425..1484, 1426..1485, 1483..1731, 1498..1731, 1500..1733		

Seq. No.	20929	Seq. ID	OJ991117_02.0103.C5
Gene No.	43697	Strand	+
Start	1	End	8152
Name	OJ991117_02.0103.C5.o1.np	Method	AAT/NAP
Start	1	End	4664
GI	2501011	Score	931
Exons	1..40, 785..916, 1560..1688, 2028..2155, 2232..2396, 2783..2908, 3409..3482, 3606..3813, 4187..4664		
GI Descrip.	ISOLEUCYL-TRNA SYNTHETASE (ISOLEUCINE--TRNA LIGASE) (ILERS) gi 1652625 dbj BAA17545  (D90907) isoleucyl-tRNA synthetase [Synechocystis sp.]		

Seq. No.	20929	Seq. ID	OJ991117_02.0103.C5
Gene No.	43697	Strand	+
Start	1	End	8152
Name	OJ991117_02.0103.C5.o1.gs	Method	GENSCAN
Start	785	End	8152
GI	none	Score	.9
Exons	785..916, 1560..1688, 2028..2155, 2232..2396, 2783..2908, 3409..3482, 3675..3855, 4196..4375, 4449..4682, 5433..5875, 6411..6498, 7144..7210, 8050..8152		

Seq. No.	20929	Seq. ID	OJ991117_02.0103.C5
Gene No.	43697	Strand	+
Start	1	End	8152

Name	OJ991117_02.0103.C5.o1.tc	Method	TBLASTX:Cress
Start	2041	End	2317
GI	none	Score	155
Exons	2041..2157, 2042..2149, 2225..2317, 2238..2315		
Seq. No.	20929	Seq. ID	OJ991117_02.0103.C5
Gene No.	43697	Strand	+
Start	1	End	8152
Name	OJ991117_02.0103.C5.o2.tm	Method	TBLASTX:Maize
Start	2075	End	2841
GI	none	Score	124
Exons	2075..2149, 2077..2148, 2232..2396, 2233..2403, 2234..2395, 2746..2841, 2783..2839, 2791..2841		
Seq. No.	20929	Seq. ID	OJ991117_02.0103.C5
Gene No.	43697	Strand	+
Start	1	End	8152
Name	OJ991117_02.0103.C5.o1.ts	Method	TBLASTX:Soybean
Start	2078	End	3483
GI	none	Score	92
Exons	2078..2149, 2080..2148, 2232..2396, 2237..2398, 2237..2395, 2785..2925, 2785..2901, 2786..2977, 2819..2935, 3290..3379, 3382..3480, 3399..3482, 3400..3483, 3402..3482		
Seq. No.	20929	Seq. ID	OJ991117_02.0103.C5
Gene No.	43697	Strand	+
Start	1	End	8152
Name	OJ991117_02.0103.C5.o2.ts	Method	TBLASTX:Soybean
Start	3616	End	3854
GI	none	Score	283
Exons	3616..3852, 3621..3854		
Seq. No.	20929	Seq. ID	OJ991117_02.0103.C5
Gene No.	43697	Strand	+
Start	1	End	8152
Name	OJ991117_02.0103.C5.o1.tm	Method	TBLASTX:Maize
Start	3628	End	4678
GI	none	Score	345
Exons	3628..3858, 3628..3855, 4182..4376, 4193..4381, 4195..4389, 4195..4377, 4421..4678, 4422..4658, 4523..4678		
Seq. No.	20929	Seq. ID	OJ991117_02.0103.C5
Gene No.	43697	Strand	+
Start	1	End	8152
Name	OJ991117_02.0103.C5.o1.gp	Method	AAT/GAP
Start	4198	End	4752
GI	uC-osflcyp106b12b1	Score	882
Exons	4198..4375, 4449..4752		
GI Descrip.	'1174521/sp P41972 SYI_STAAU 9.0e-13 ISOLEUCYL-TRNA SYNTHETASE (ISOLEUCINE--TRNA LIGASE) (ILERS) >gi_541337_pir_S40178 isoleucine--tRNA ligase (EC 6.1.1.5) - Staphylococcus aureus >gi_437916_emb_CAA52296 (X74219) isoleucyl-tRNA synthetase [Staphylococcus aureus]'		
Seq. No.	20929	Seq. ID	OJ991117_02.0103.C5
Gene No.	43697	Strand	+
Start	1	End	8152

Name	OJ991117_02.0103.C5.o3.ts	Method	TBLASTX:Soybean
Start	4443	End	4687
GI	none	Score	230
Exons	4443..4652, 4446..4652, 4529..4687		

  

Seq. No.	20930	Seq. ID	OJ991117_02.0103.C6
Gene No.	43698	Strand	+
Start	229	End	2160
Name	OJ991117_02.0103.C6.o1.gp	Method	AAT/GAP
Start	229	End	958
GI	60045_1.R1084	Score	847
Exons	229..375, 488..550, 626..958		
GI Descrip.	'4388730/gb AAD19768  1.0e-16 (AC006413) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	20930	Seq. ID	OJ991117_02.0103.C6
Gene No.	43698	Strand	+
Start	229	End	2160
Name	OJ991117_02.0103.C6.o1.np	Method	AAT/NAP
Start	272	End	387
GI	4388730	Score	54
Exons	272..387		
GI Descrip.	(AC006413) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	20930	Seq. ID	OJ991117_02.0103.C6
Gene No.	43698	Strand	+
Start	229	End	2160
Name	OJ991117_02.0103.C6.o1.gs	Method	GENSCAN
Start	283	End	2160
GI	none	Score	.66
Exons	283..375, 488..550, 789..883, 1580..1641, 1760..2160		

Seq. No.	20930	Seq. ID	OJ991117_02.0103.C6
Gene No.	43699	Strand	+
Start	2204	End	5423
Name	OJ991117_02.0103.C6.o2.gp	Method	AAT/GAP
Start	2204	End	3654
GI	103206_1.R1084	Score	802
Exons	2204..2280, 2462..2508, 2986..3040, 3227..3344, 3494..3654		
GI Descrip.	'2497486/sp O04905 UMPK ARATH 1.0e-31 URIDYLATE KINASE (UK) (URIDINE MONOPHOSPHATE KINASE) (UMP KINASE) >gi_2121275 (AF000147) UMP/CMP kinase [Arabidopsis thaliana]'		

Seq. No.	20930	Seq. ID	OJ991117_02.0103.C6
Gene No.	43699	Strand	+
Start	2204	End	5423
Name	OJ991117_02.0103.C6.o2.np	Method	AAT/NAP
Start	2464	End	4433
GI	6683811	Score	801
Exons	2464..2502, 2989..3040, 3227..3344, 3494..3650, 3817..3897, 4001..4108, 4359..4433		
GI Descrip.	(AF187062) UMP/CMP kinase a [Oryza sativa]		

Seq. No.	20930	Seq. ID	OJ991117_02.0103.C6
Gene No.	43699	Strand	+
Start	2204	End	5423
Name	OJ991117_02.0103.C6.o2.gs	Method	GENSCAN

Start	2980	End	5369
GI	none	Score	.85
Exons	2980..3040, 3227..3344, 3494..3650, 4001..4108, 4359..4430, 5292..5369		

Seq. No.	20930	Seq. ID	OJ991117_02.0103.C6
Gene No.	43699	Strand	+
Start	2204	End	5423
Name	OJ991117_02.0103.C6.o3.gp	Method	AAT/GAP
Start	4011	End	5423
GI	none	Score	909
Exons	4011..4108, 4359..4430, 4532..4590, 5145..5423		

Seq. No.	20930	Seq. ID	OJ991117_02.0103.C6
Gene No.	43700	Strand	-
Start	5989	End	7599
Name	OJ991117_02.0103.C6.o2.tm	Method	TBLASTX:Maize
Start	271	End	727
GI	none	Score	.141
Exons	271..375, 282..371, 316..375, 485..553, 487..561, 587..727, 590..724, 624..725		

Seq. No.	20930	Seq. ID	OJ991117_02.0103.C6
Gene No.	43700	Strand	-
Start	5989	End	7599
Name	OJ991117_02.0103.C6.o1.tm	Method	TBLASTX:Maize
Start	2977	End	5365
GI	none	Score	84
Exons	2977..3042, 2980..3042, 2987..3043, 3225..3344, 3225..3353, 3226..3354, 3493..3645, 3494..3661, 3495..3662, 3816..3896, 3817..3897, 3819..3899, 3821..3898, 3998..4111, 3998..4108, 4000..4113, 4356..4424, 4356..4424, 4357..4428, 4358..4429, 4358..4429, 5199..5282, 5202..5264, 5204..5278, 5336..5365		

Seq. No.	20930	Seq. ID	OJ991117_02.0103.C6
Gene No.	43700	Strand	-
Start	5989	End	7599
Name	OJ991117_02.0103.C6.o1.ts	Method	TBLASTX:Soybean
Start	3225	End	3882
GI	none	Score	105
Exons	3225..3341, 3225..3344, 3226..3354, 3226..3354, 3489..3644, 3494..3649, 3495..3650, 3817..3882, 3822..3878		

Seq. No.	20930	Seq. ID	OJ991117_02.0103.C6
Gene No.	43700	Strand	-
Start	5989	End	7599
Name	OJ991117_02.0103.C6.o2.tc	Method	TBLASTX:Cress
Start	3225	End	3354
GI	none	Score	197
Exons	3225..3344, 3226..3354		

Seq. No.	20930	Seq. ID	OJ991117_02.0103.C6
Gene No.	43700	Strand	-
Start	5989	End	7599
Name	OJ991117_02.0103.C6.o1.tc	Method	TBLASTX:Cress
Start	3513	End	4450
GI	none	Score	181

Exons 3513..3650, 3515..3658, 3816..3890, 3817..3897, 3835..3897,  
3836..3898, 3998..4111, 4000..4107, 4356..4418, 4358..4450

Seq. No. 20930 Seq. ID OJ991117\_02.0103.C6  
Gene No. 43700 Strand -  
Start 5989 End 7599  
Name OJ991117\_02.0103.C6.o1.tw Method TBLASTX:Wheat  
Start 3589 End 5355  
GI none Score 108  
Exons 3589..3645, 3590..3661, 3591..3662, 3816..3893, 3817..3897,  
3818..3898, 3991..4113, 3998..4111, 4353..4382, 4356..4433,  
4358..4384, 4389..4421, 4391..4423, 4530..4574, 5153..5188,  
5155..5187, 5230..5265, 5237..5263, 5326..5355

Seq. No. 20930 Seq. ID OJ991117\_02.0103.C6  
Gene No. 43700 Strand -  
Start 5989 End 7599  
Name OJ991117\_02.0103.C6.o3.gs Method GENSCAN  
Start 5989 End 7599  
GI none Score .41  
Exons 5989..6137, 6279..6463, 7394..7599

Seq. No. 20931 Seq. ID OJ991117\_02.0103.C7  
Gene No. 43701 Strand +  
Start 115 End 964  
Name OJ991117\_02.0103.C7.o1.gs Method GENSCAN  
Start 115 End 961  
GI none Score .89  
Exons 115..629, 751..961

Seq. No. 20931 Seq. ID OJ991117\_02.0103.C7  
Gene No. 43701 Strand +  
Start 115 End 964  
Name OJ991117\_02.0103.C7.o1.tm Method TBLASTX:Maize  
Start 123 End 486  
GI none Score 519  
Exons 123..482, 124..486

Seq. No. 20931 Seq. ID OJ991117\_02.0103.C7  
Gene No. 43701 Strand +  
Start 115 End 964  
Name OJ991117\_02.0103.C7.o2.tm Method TBLASTX:Maize  
Start 740 End 964  
GI none Score 54  
Exons 740..784, 742..783, 810..962, 812..964, 829..963

Seq. No. 20932 Seq. ID OJ991117\_02.0103.C8  
Gene No. 43702 Strand +  
Start 220 End 731  
Name OJ991117\_02.0103.C8.o1.np Method AAT/NAP  
Start 220 End 731  
GI 4704762 Score 243  
Exons 220..265, 398..549, 634..731  
GI Descrip. (AF128404) cellulase homolog [Nicotiana alata]

Seq. No. 20932 Seq. ID OJ991117\_02.0103.C8  
Gene No. 43702 Strand +



Start 220  
 Name OJ991117\_02.0103.C8.o1.gp  
 Start 239  
 GI 2428036  
 Exons 239..549

End 731  
 Method AAT/GAP  
 End 549  
 Score 552

Seq. No. 20932  
 Gene No. 43702  
 Start 220  
 Name OJ991117\_02.0103.C8.o1.gs  
 Start 301  
 GI none  
 Exons 301..549, 634..702

Seq. ID OJ991117\_02.0103.C8  
 Strand +  
 End 731  
 Method GENSCAN  
 End 702  
 Score .65

Seq. No. 20932  
 Gene No. 43702  
 Start 220  
 Name OJ991117\_02.0103.C8.o1.tw  
 Start 403  
 GI none  
 Exons 403..537, 414..542, 415..537,

Seq. ID OJ991117\_02.0103.C8  
 Strand +  
 End 731  
 Method TBLASTX:Wheat  
 End 729  
 Score 131  
 640..729, 645..713

Seq. No. 20932  
 Gene No. 43702  
 Start 220  
 Name OJ991117\_02.0103.C8.o1.ts  
 Start 412  
 GI none  
 Exons 412..552, 423..551, 616..729, 633..731

Seq. ID OJ991117\_02.0103.C8  
 Strand +  
 End 731  
 Method TBLASTX:Soybean  
 End 731  
 Score 143

Seq. No. 20932  
 Gene No. 43702  
 Start 220  
 Name OJ991117\_02.0103.C8.o1.tm  
 Start 417  
 GI none  
 Exons 417..554, 424..552, 616..729, 618..707

Seq. ID OJ991117\_02.0103.C8  
 Strand +  
 End 731  
 Method TBLASTX:Maize  
 End 729  
 Score 139

Seq. No. 20932  
 Gene No. 43702  
 Start 220  
 Name OJ991117\_02.0103.C8.o1.tc  
 Start 424  
 GI none  
 Exons 424..552, 432..551, 616..723, 618..731

Seq. ID OJ991117\_02.0103.C8  
 Strand +  
 End 731  
 Method TBLASTX:Cress  
 End 731  
 Score 147

Seq. No. 20933  
 Gene No. 43703  
 Start 229  
 Name OJ991117\_02.0103.C9.o1.gs  
 Start 229  
 GI none  
 Exons 229..340, 433..580

Seq. ID OJ991117\_02.0103.C9  
 Strand -  
 End 580  
 Method GENSCAN  
 End 580  
 Score .78

Seq. No. 20934  
 Gene No. 43704  
 Start 184

Seq. ID OJ991117\_02.0103.C10  
 Strand -  
 End 363

Name	OJ991117_02.0103.C10.ol.gs	Method	GENSCAN
Start	184	End	363
GI	none	Score	.4
Exons	184..363		

Seq. No.	20935	Seq. ID	OJ991117_02.0103.C11
Gene No.	43705	Strand	+
Start	151	End	1177
Name	OJ991117_02.0103.C11.ol.np	Method	AAT/NAP
Start	151	End	896
GI	3075389	Score	127
Exons	151..331, 447..483, 714..765, 850..896		
GI Descrip.	(AC004484) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	20935	Seq. ID	OJ991117_02.0103.C11
Gene No.	43705	Strand	+
Start	151	End	1177
Name	OJ991117_02.0103.C11.ol.gp	Method	AAT/GAP
Start	261	End	1153
GI	LIB3432-036-P2-K1-F9	Score	738
Exons	261..331, 447..483, 566..640, 714..765, 850..894, 1004..1153		
GI Descrip.	'3075389 9.0e-24 (AC004484) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	20935	Seq. ID	OJ991117_02.0103.C11
Gene No.	43705	Strand	+
Start	151	End	1177
Name	OJ991117_02.0103.C11.ol.tm	Method	TBLASTX:Maize
Start	274	End	1177
GI	none	Score	80
Exons	274..324, 276..332, 435..482, 436..498, 560..637, 563..640, 713..766, 714..764, 714..770, 715..768, 844..894, 848..895, 850..894, 1005..1112, 1006..1098, 1010..1105, 1130..1177, 1133..1159		

Seq. No.	20935	Seq. ID	OJ991117_02.0103.C11
Gene No.	43705	Strand	+
Start	151	End	1177
Name	OJ991117_02.0103.C11.ol.gs	Method	GENSCAN
Start	831	End	1104
GI	none	Score	.67
Exons	831..894, 1004..1104		

Seq. No.	20936	Seq. ID	OJ991117_02.0103.C12
Gene No.	43706	Strand	+
Start	1	End	1322
Name	OJ991117_02.0103.C12.ol.np	Method	AAT/NAP
Start	1	End	1322
GI	2501011	Score	483
Exons	1..38, 241..298, 359..472, 563..849, 947..1083, 1296..1322		
GI Descrip.	ISOLEUCYL-TRNA SYNTHETASE (ISOLEUCINE--TRNA LIGASE) (ILERS) gi 1652625 dbj BAA17545  (D90907) isoleucyl-tRNA synthetase [Synechocystis sp.]		

Seq. No.	20936	Seq. ID	OJ991117_02.0103.C12
Gene No.	43706	Strand	+
Start	1	End	1322

Name	OJ991117_02.0103.C12.o1.gs	Method	GENSCAN
Start	241	End	1083
GI	none	Score	.86
Exons	241..472, 563..849, 947..1083		
Seq. No.	20936	Seq. ID	OJ991117_02.0103.C12
Gene No.	43706	Strand	+
Start	1	End	1322
Name	OJ991117_02.0103.C12.o1.ts	Method	TBLASTX:Soybean
Start	777	End	1095
GI	none	Score	84
Exons	777..848, 779..841, 900..1076, 946..1092, 946..1095		
Seq. No.	20936	Seq. ID	OJ991117_02.0103.C12
Gene No.	43706	Strand	+
Start	1	End	1322
Name	OJ991117_02.0103.C12.o1.tm	Method	TBLASTX:Maize
Start	945	End	1123
GI	none	Score	146
Exons	945..1070, 946..1092, 946..1116, 947..1123		
Seq. No.	20937	Seq. ID	OJ991117_02.0103.C13
Gene No.	43707	Strand	+
Start	267	End	939
Name	OJ991117_02.0103.C13.o1.np	Method	AAT/NAP
Start	267	End	939
GI	4388730	Score	199
Exons	267..389, 648..710, 849..939		
GI Descrip.	(AC006413) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	20937	Seq. ID	OJ991117_02.0103.C13
Gene No.	43707	Strand	+
Start	267	End	939
Name	OJ991117_02.0103.C13.o1.gs	Method	GENSCAN
Start	308	End	908
GI	none	Score	.85
Exons	308..389, 648..710, 849..908		
Seq. No.	20938	Seq. ID	OJ991117_02.0103.C15
Gene No.	43708	Strand	+
Start	1	End	920
Name	OJ991117_02.0103.C15.o1.np	Method	AAT/NAP
Start	1	End	920
GI	4454025	Score	589
Exons	1..83, 174..920		
GI Descrip.	(AL035394) putative cellulase [Arabidopsis thaliana]		
Seq. No.	20938	Seq. ID	OJ991117_02.0103.C15
Gene No.	43708	Strand	+
Start	1	End	920
Name	OJ991117_02.0103.C15.o1.tm	Method	TBLASTX:Maize
Start	5	End	809
GI	none	Score	135
Exons	5..85, 6..92, 174..623, 203..622, 605..808, 612..809		
Seq. No.	20938	Seq. ID	OJ991117_02.0103.C15
Gene No.	43708	Strand	+

Start	1	End	920
Name	OJ991117_02.0103.C15.o1.tc	Method	TBLASTX:Cress
Start	51	End	908
GI	none	Score	67
Exons	51..92, 348..398, 426..698, 545..697, 749..907, 750..908		
Seq. No.	20938	Seq. ID	OJ991117_02.0103.C15
Gene No.	43708	Strand	+
Start	1	End	920
Name	OJ991117_02.0103.C15.o1.gs	Method	GENSCAN
Start	102	End	865
GI	none	Score	.82
Exons	102..865		
Seq. No.	20938	Seq. ID	OJ991117_02.0103.C15
Gene No.	43708	Strand	+
Start	1	End	920
Name	OJ991117_02.0103.C15.o1.ts	Method	TBLASTX:Soybean
Start	416	End	905
GI	none	Score	228
Exons	416..664, 417..692, 720..905, 746..898		
Seq. No.	20938	Seq. ID	OJ991117_02.0103.C15
Gene No.	43708	Strand	+
Start	1	End	920
Name	OJ991117_02.0103.C15.o1.tw	Method	TBLASTX:Wheat
Start	572	End	860
GI	none	Score	133
Exons	572..697, 573..698, 741..860		
Seq. No.	20939	Seq. ID	OJ991117_02.0103.C16
Gene No.	43709	Strand	+
Start	1728	End	1925
Name	OJ991117_02.0103.C16.o1.gp	Method	AAT/GAP
Start	1728	End	1925
GI	427960	Score	363
Exons	1728..1925		
Seq. No.	20939	Seq. ID	OJ991117_02.0103.C16
Gene No.	43710	Strand	+
Start	1882	End	4441
Name	OJ991117_02.0103.C16.o1.gs	Method	GENSCAN
Start	1882	End	4441
GI	none	Score	.65
Exons	1882..2168, 3955..4441		
Seq. No.	20939	Seq. ID	OJ991117_02.0103.C16
Gene No.	43711	Strand	+
Start	9131	End	14035
Name	OJ991117_02.0103.C16.o3.gs	Method	GENSCAN
Start	9131	End	13665
GI	none	Score	.54
Exons	9131..9207, 10914..11585, 11772..11947, 13001..13665		
Seq. No.	20939	Seq. ID	OJ991117_02.0103.C16
Gene No.	43711	Strand	+
Start	9131	End	14035

Name	OJ991117_02.0103.C16.o2.gp	Method	AAT/GAP
Start	12888	End	13275
GI	702282	Score	736
Exons	12888..13275		
Seq. No.	20939	Seq. ID	OJ991117_02.0103.C16
Gene No.	43711	Strand	+
Start	9131	End	14035
Name	OJ991117_02.0103.C16.o1.np	Method	AAT/NAP
Start	12940	End	14035
GI	1771162	Score	147
Exons	12940..13062, 13124..13708, 14006..14035		
GI Descrip.	(X98930) SBT2 [Lycopersicon esculentum] gi 3687307 emb CAA07000.1  (AJ006379) subtilisin-like protease [Lycopersicon esculentum]		
Seq. No.	20939	Seq. ID	OJ991117_02.0103.C16
Gene No.	43711	Strand	+
Start	9131	End	14035
Name	OJ991117_02.0103.C16.o3.gp	Method	AAT/GAP
Start	13656	End	13986
GI	5900764	Score	629
Exons	13656..13986		
GI Descrip.	5042437/gb AC007789.1 AC007789 6.0e-12 Oryza sativa BAC T49B20 genomic sequence, complete sequence		
Seq. No.	20939	Seq. ID	OJ991117_02.0103.C16
Gene No.	43712	Strand	-
Start	4829	End	5260
Name	OJ991117_02.0103.C16.o2.gs	Method	GENSCAN
Start	4829	End	5260
GI	none	Score	.92
Exons	4829..5260		
Seq. No.	20939	Seq. ID	OJ991117_02.0103.C16
Gene No.	43713	Strand	
Start	13072	End	13659
Name	OJ991117_02.0103.C16.o1.tm	Method	TBLASTX:Maize
Start	13072	End	13659
GI	none	Score	35
Exons	13072..13125, 13201..13449, 13555..13659		
Seq. No.	20939	Seq. ID	OJ991117_02.0103.C16
Gene No.	43713	Strand	
Start	13072	End	13659
Name	OJ991117_02.0103.C16.o1.ts	Method	TBLASTX:Soybean
Start	13192	End	13659
GI	none	Score	176
Exons	13192..13449, 13288..13359, 13413..13451, 13546..13659, 13566..13658		
Seq. No.	20939	Seq. ID	OJ991117_02.0103.C16
Gene No.	43713	Strand	
Start	13072	End	13659
Name	OJ991117_02.0103.C16.o1.tw	Method	TBLASTX:Wheat
Start	13201	End	13458
GI	none	Score	179

Exons 13201..13458

Seq. No.	20939	Seq. ID	OJ991117_02.0103.C16
Gene No.	43713	Strand	+
Start	13072	End	13659
Name	OJ991117_02.0103.C16.ol.tc	Method	TBLASTX:Cress
Start	13207	End	13659
GI	none	Score	122
Exons	13207..13365, 13408..13458, 13555..13659		

Seq. No.	20940	Seq. ID	OJ991117_02.0103.C17
Gene No.	43714	Strand	+
Start	122	End	1490
Name	OJ991117_02.0103.C17.ol.gs	Method	GENSCAN
Start	122	End	1490
GI	none	Score	.52
Exons	122..233, 1480..1490		

Seq. No.	20940	Seq. ID	OJ991117_02.0103.C17
Gene No.	43715	Strand	+
Start	3208	End	4392
Name	OJ991117_02.0103.C17.ol.ts	Method	TBLASTX:Soybean
Start	11	End	4340
GI	none	Score	39
Exons	11..37, 49..141, 50..139, 158..235, 3421..3450, 3433..3699, 3776..3835, 3777..3869, 3783..4100, 3839..4114, 4122..4340, 4136..4339		

Seq. No.	20940	Seq. ID	OJ991117_02.0103.C17
Gene No.	43715	Strand	+
Start	3208	End	4392
Name	OJ991117_02.0103.C17.ol.tm	Method	TBLASTX:Maize
Start	46	End	4334
GI	none	Score	98
Exons	46..141, 47..139, 146..235, 157..234, 3451..3582, 3777..3836, 3783..4100, 3857..4096, 4122..4334, 4151..4327		

Seq. No.	20940	Seq. ID	OJ991117_02.0103.C17
Gene No.	43715	Strand	+
Start	3208	End	4392
Name	OJ991117_02.0103.C17.ol.tc	Method	TBLASTX:Cress
Start	49	End	4343
GI	none	Score	96
Exons	49..141, 50..139, 158..235, 3292..3357, 3451..3582, 3777..3836, 3839..4099, 3840..4100, 4122..4343, 4130..4342		

Seq. No.	20940	Seq. ID	OJ991117_02.0103.C17
Gene No.	43715	Strand	+
Start	3208	End	4392
Name	OJ991117_02.0103.C17.ol.tw	Method	TBLASTX:Wheat
Start	64	End	4361
GI	none	Score	86
Exons	64..138, 68..142, 157..234, 158..244, 3941..4018, 3945..4019, 3997..4044, 4022..4183, 4023..4115, 4122..4361, 4122..4343, 4130..4351		

Seq. No.	20940	Seq. ID	OJ991117_02.0103.C17
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Gene No.	43715	Strand	+
Start	3208	End	4392
Name	OJ991117_02.0103.C17.o1.np	Method	AAT/NAP
Start	3044	End	4392
GI	3413481	Score	486
Exons	3044..3104, 3308..3824, 3867..4392		
GI Descrip.	(AJ006786) serine protease [ <i>Lycopersicon esculentum</i> ]		
Seq. No.	20940	Seq. ID	OJ991117_02.0103.C17
Gene No.	43715	Strand	+
Start	3208	End	4392
Name	OJ991117_02.0103.C17.o2.gs	Method	GENSCAN
Start	3208	End	4377
GI	none	Score	.57
Exons	3208..3673, 3697..4377		
Seq. No.	20941	Seq. ID	OJ991117_02.0103.C18
Gene No.	43716	Strand	+
Start	1	End	1036
Name	OJ991117_02.0103.C18.o1.np	Method	AAT/NAP
Start	1	End	1003
GI	3176874	Score	621
Exons	1..1003		
GI Descrip.	(AF065639) cucumisin-like serine protease [ <i>Arabidopsis thaliana</i> ]		
Seq. No.	20941	Seq. ID	OJ991117_02.0103.C18
Gene No.	43716	Strand	+
Start	1	End	1036
Name	OJ991117_02.0103.C18.o1.gs	Method	GENSCAN
Start	61	End	1036
GI	none	Score	.89
Exons	61..505, 541..1036		
Seq. No.	20941	Seq. ID	OJ991117_02.0103.C18
Gene No.	43717	Strand	-
Start	2844	End	4331
Name	OJ991117_02.0103.C18.o1.tm	Method	TBLASTX:Maize
Start	23	End	4326
GI	none	Score	368
Exons	23..157, 164..556, 165..518, 533..601, 941..1006, 2832..2936, 2874..2936, 2988..3035, 3150..3233, 3222..3710, 3268..3708, 3697..3888, 3711..4007, 4065..4151, 4143..4316, 4147..4326		
Seq. No.	20941	Seq. ID	OJ991117_02.0103.C18
Gene No.	43717	Strand	-
Start	2844	End	4331
Name	OJ991117_02.0103.C18.o1.ts	Method	TBLASTX:Soybean
Start	156	End	4316
GI	none	Score	380
Exons	156..548, 164..556, 530..628, 665..778, 869..1000, 2874..2984, 3102..3185, 3243..3710, 3259..3708, 3685..3873, 3711..4025, 3756..3974, 3943..4002, 4020..4316, 4024..4266		
Seq. No.	20941	Seq. ID	OJ991117_02.0103.C18
Gene No.	43717	Strand	-
Start	2844	End	4331
Name	OJ991117_02.0103.C18.o1.tc	Method	TBLASTX:Cress

Start	164	End	4331
GI	none	Score	386
Exons	164..556, 165..509, 530..919, 682..918, 884..1000, 940..993, 2874..2942, 2875..2934, 2982..3209, 3133..3189, 3228..4331, 3261..3404, 3265..3888, 3777..4043, 4015..4326		

Seq. No.	20941	Seq. ID	OJ991117_02.0103.C18
Gene No.	43717	Strand	-
Start	2844	End	4331
Name	OJ991117_02.0103.C18.o2.tw	Method	TBLASTX:Wheat
Start	341	End	3540
GI	none	Score	154
Exons	341..517, 342..518, 3339..3533, 3340..3534, 3403..3540		

Seq. No.	20941	Seq. ID	OJ991117_02.0103.C18
Gene No.	43717	Strand	-
Start	2844	End	4331
Name	OJ991117_02.0103.C18.o3.tw	Method	TBLASTX:Wheat
Start	533	End	3333
GI	none	Score	195
Exons	533..862, 2997..3185, 3207..3332, 3211..3333		

Seq. No.	20941	Seq. ID	OJ991117_02.0103.C18
Gene No.	43717	Strand	-
Start	2844	End	4331
Name	OJ991117_02.0103.C18.o2.tm	Method	TBLASTX:Maize
Start	695	End	3149
GI	none	Score	135
Exons	695..901, 2937..3149, 2940..3149		

Seq. No.	20941	Seq. ID	OJ991117_02.0103.C18
Gene No.	43717	Strand	-
Start	2844	End	4331
Name	OJ991117_02.0103.C18.o2.gs	Method	GENSCAN
Start	2844	End	4284
GI	none	Score	.99
Exons	2844..4284		

Seq. No.	20941	Seq. ID	OJ991117_02.0103.C18
Gene No.	43717	Strand	-
Start	2844	End	4331
Name	OJ991117_02.0103.C18.o2.np	Method	AAT/NAP
Start	2865	End	4331
GI	4006827	Score	1230
Exons	2865..4331		
GI Descrip.	(AC005970) putative serine protease [Arabidopsis thaliana]		

Seq. No.	20941	Seq. ID	OJ991117_02.0103.C18
Gene No.	43717	Strand	-
Start	2844	End	4331
Name	OJ991117_02.0103.C18.o1.gp	Method	AAT/GAP
Start	3042	End	3451
GI	LIB3432-025-P1-K1-D7	Score	796
Exons	3042..3451		
GI Descrip.	'1076414/pir  S52770 3.0e-33 subtilisin-like proteinase (EC 3.4.21.-) - Arabidopsis thaliana (fragment) >gi_757534_emb_CAA59963_ (X85974) subtilisin-like protease		



[Arabidopsis thaliana]'

Seq. No.	20941	Seq. ID	OJ991117_02.0103.C18
Gene No.	43717	Strand	-
Start	2844	End	4331
Name	OJ991117_02.0103.C18.o2.gp	Method	AAT/GAP
Start	3817	End	4226
GI	571677	Score	776
Exons	3817..4226		
GI Descrip.	1076414/pir  S52770 3.0e-33 subtilisin-like proteinase (EC 3.4.21.-) - Arabidopsis thaliana (fragment) >gi_757534_emb_CAA59963_ (X85974) subtilisin-like protease [Arabidopsis thaliana]		

Seq. No.	20941	Seq. ID	OJ991117_02.0103.C18
Gene No.	43717	Strand	-
Start	2844	End	4331
Name	OJ991117_02.0103.C18.o1.tw	Method	TBLASTX:Wheat
Start	3920	End	4331
GI	none	Score	254
Exons	3920..4168, 3942..4331, 3943..4329		

Seq. No.	20942	Seq. ID	OJ991117_02.0103.C19
Gene No.	43718	Strand	+
Start	4545	End	5050
Name	OJ991117_02.0103.C19.o1.gp	Method	AAT/GAP
Start	4535	End	5050
GI	57737_1.R1084	Score	946
Exons	4535..5050		
GI Descrip.	'5042437/gb AC007789.1 AC007789 6.0e-12 Oryza sativa BAC T49B20 genomic sequence, complete sequence'		

Seq. No.	20942	Seq. ID	OJ991117_02.0103.C19
Gene No.	43718	Strand	+
Start	4545	End	5050
Name	OJ991117_02.0103.C19.o2.gs	Method	GENSCAN
Start	4545	End	4931
GI	none	Score	.98
Exons	4545..4931		

Seq. No.	20942	Seq. ID	OJ991117_02.0103.C19
Gene No.	43719	Strand	+
Start	6527	End	6838
Name	OJ991117_02.0103.C19.o3.gs	Method	GENSCAN
Start	6527	End	6838
GI	none	Score	.98
Exons	6527..6838		

Seq. No.	20942	Seq. ID	OJ991117_02.0103.C19
Gene No.	43720	Strand	+
Start	8795	End	9193
Name	OJ991117_02.0103.C19.o4.gs	Method	GENSCAN
Start	8795	End	9193
GI	none	Score	.55
Exons	8795..9193		

Seq. No.	20942	Seq. ID	OJ991117_02.0103.C19
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Gene No.	43721	Strand	-
Start	1	End	793
Name	OJ991117_02.0103.C19.o1.np	Method	AAT/NAP
Start	1	End	793
GI	3176874	Score	399
Exons	1..793		
GI Descrip.	(AF065639) cucumisin-like serine protease [Arabidopsis thaliana]		

Seq. No.	20942	Seq. ID	OJ991117_02.0103.C19
Gene No.	43721	Strand	-
Start	1	End	793
Name	OJ991117_02.0103.C19.o1.gs	Method	GENSCAN
Start	38	End	790
GI	none	Score	.99
Exons	38..790		

Seq. No.	20942	Seq. ID	OJ991117_02.0103.C19
Gene No.	43722	Strand	-
Start	7350	End	9329
Name	OJ991117_02.0103.C19.o1.tc	Method	TBLASTX:Cress
Start	2	End	712
GI	none	Score	49
Exons	2..163, 170..238, 236..304, 261..305, 332..364, 387..533, 413..568, 683..712		

Seq. No.	20942	Seq. ID	OJ991117_02.0103.C19
Gene No.	43722	Strand	-
Start	7350	End	9329
Name	OJ991117_02.0103.C19.o1.tw	Method	TBLASTX:Wheat
Start	2	End	283
GI	none	Score	89
Exons	2..154, 3..122, 179..283		

Seq. No.	20942	Seq. ID	OJ991117_02.0103.C19
Gene No.	43722	Strand	-
Start	7350	End	9329
Name	OJ991117_02.0103.C19.o1.ts	Method	TBLASTX:Soybean
Start	2	End	238
GI	none	Score	97
Exons	2..238, 6..215		

Seq. No.	20942	Seq. ID	OJ991117_02.0103.C19
Gene No.	43722	Strand	-
Start	7350	End	9329
Name	OJ991117_02.0103.C19.o1.tm	Method	TBLASTX:Maize
Start	29	End	247
GI	none	Score	208
Exons	29..247, 30..218, 131..220		

Seq. No.	20942	Seq. ID	OJ991117_02.0103.C19
Gene No.	43722	Strand	-
Start	7350	End	9329
Name	OJ991117_02.0103.C19.o2.gp	Method	AAT/GAP
Start	7350	End	9329
GI	none	Score	697
Exons	7350..7693, 9242..9329		

Seq. No.	20943	Seq. ID	OJ991117_02.0103.C20
Gene No.	43723	Strand	-
Start	96	End	2333
Name	OJ991117_02.0103.C20.o1.gs	Method	GENSCAN
Start	96	End	2333
GI	none	Score	.97
Exons	96..608, 783..888, 2320..2333		

Seq. No.	20944	Seq. ID	OJ991217_07.0114.C1
Gene No.	43724	Strand	-
Start	22	End	183
Name	OJ991217_07.0114.C1.o1.gs	Method	GENSCAN
Start	22	End	183
GI	none	Score	.56
Exons	22..183		

Seq. No.	20944	Seq. ID	OJ991217_07.0114.C1
Gene No.	43725	Strand	-
Start	467	End	553
Name	OJ991217_07.0114.C1.o1.gp	Method	AAT/GAP
Start	467	End	553
GI	none	Score	167
Exons	467..553		

Seq. No.	20945	Seq. ID	OJ991217_07.0114.C2
Gene No.	43726	Strand	-
Start	655	End	828
Name	OJ991217_07.0114.C2.o1.gs	Method	GENSCAN
Start	655	End	828
GI	none	Score	.62
Exons	655..828		

Seq. No.	20946	Seq. ID	OJ991217_07.0114.C3
Gene No.	43727	Strand	+
Start	1	End	686
Name	OJ991217_07.0114.C3.o1.np	Method	AAT/NAP
Start	1	End	686
GI	2119980	Score	1178
Exons	1..686		
GI Descrip.	transposase (transposons) - Escherichia coli gi 43089 emb CAA42760  (X60200) transposase [Escherichia coli] gi 303566 dbj BAA03914  (D16449) transposase [Escherichia coli]		

Seq. No.	20946	Seq. ID	OJ991217_07.0114.C3
Gene No.	43727	Strand	+
Start	1	End	686
Name	OJ991217_07.0114.C3.o1.gs	Method	GENSCAN
Start	49	End	541
GI	none	Score	.55
Exons	49..127, 164..541		

Seq. No.	20947	Seq. ID	OJ991217_07.0114.C4
Gene No.	43728	Strand	-
Start	1425	End	15732
Name	OJ991217_07.0114.C4.o1.gs	Method	GENSCAN
Start	1425	End	15732
GI	none	Score	.63

Exons 1425..1547, 1618..1952, 2751..2875, 3455..3681, 4363..4468, 5593..5729, 6913..7271, 7986..8120, 9927..10059, 10201..10472, 10586..10670, 11022..11157, 11563..11711, 12395..12521, 13287..13426, 13518..13583, 14014..14155, 14275..14369, 14626..14871, 14894..15578, 15650..15732

Seq. No. 20947 Seq. ID OJ991217\_07.0114.C4  
 Gene No. 43728 Strand -  
 Start 1425 End 15732  
 Name OJ991217\_07.0114.C4.o2.np Method AAT/NAP  
 Start 2524 End 7010  
 GI 5051789 Score 213  
 Exons 2524..2561, 4341..4468, 4574..4681, 5593..5721, 5810..5900, 6913..7010  
 GI Descrip. (AL078637) putative protein [Arabidopsis thaliana]

Seq. No. 20947 Seq. ID OJ991217\_07.0114.C4  
 Gene No. 43728 Strand -  
 Start 1425 End 15732  
 Name OJ991217\_07.0114.C4.o1.gp Method AAT/GAP  
 Start 3100 End 5673  
 GI 23385\_1.R1084 Score 1310  
 Exons 3100..3379, 3455..3543, 3622..3681, 4363..4468, 4562..4681, 5593..5673  
 GI Descrip. '5051789/emb|CAB45082.1| 1.0e-25 (AL078637) putative protein [Arabidopsis thaliana]'

Seq. No. 20947 Seq. ID OJ991217\_07.0114.C4  
 Gene No. 43728 Strand -  
 Start 1425 End 15732  
 Name OJ991217\_07.0114.C4.o5.tm Method TBLASTX:Maize  
 Start 3605 End 4589  
 GI none Score 85  
 Exons 3605..3682, 3617..3682, 3621..3683, 3630..3692, 4354..4464, 4362..4469, 4363..4467, 4370..4471, 4560..4589

Seq. No. 20947 Seq. ID OJ991217\_07.0114.C4  
 Gene No. 43728 Strand -  
 Start 1425 End 15732  
 Name OJ991217\_07.0114.C4.o1.tm Method TBLASTX:Maize  
 Start 4591 End 6951  
 GI none Score 97  
 Exons 4591..4665, 4592..4684, 4601..4687, 5592..5705, 5592..5741, 5671..5730, 5798..5908, 5814..5903, 6910..6951

Seq. No. 20947 Seq. ID OJ991217\_07.0114.C4  
 Gene No. 43728 Strand -  
 Start 1425 End 15732  
 Name OJ991217\_07.0114.C4.o4.tm Method TBLASTX:Maize  
 Start 10189 End 10499  
 GI none Score 77  
 Exons 10189..10344, 10202..10354, 10283..10348, 10339..10473, 10352..10474, 10368..10499

Seq. No. 20947 Seq. ID OJ991217\_07.0114.C4  
 Gene No. 43728 Strand -  
 Start 1425 End 15732

Name	OJ991217_07.0114.C4.o2.tm	Method	TBLASTX:Maize
Start	13280	End	13589
GI	none	Score	131
Exons	13280..13429, 13284..13427, 13284..13442, 13285..13446, 13504..13578, 13516..13578, 13518..13589		

Seq. No.	20947	Seq. ID	OJ991217_07.0114.C4
Gene No.	43728	Strand	-
Start	1425	End	15732
Name	OJ991217_07.0114.C4.o3.tm	Method	TBLASTX:Maize
Start	14011	End	14363
GI	none	Score	109
Exons	14011..14157, 14011..14157, 14019..14159, 14269..14352, 14279..14362, 14280..14363, 14280..14363		

Seq. No.	20947	Seq. ID	OJ991217_07.0114.C4
Gene No.	43728	Strand	-
Start	1425	End	15732
Name	OJ991217_07.0114.C4.o2.gp	Method	AAT/GAP
Start	15180	End	15465
GI	2312053	Score	476
Exons	15180..15465		

Seq. No.	20948	Seq. ID	OJ991217_07.0114.C5
Gene No.	43729	Strand	+
Start	463	End	10254
Name	OJ991217_07.0114.C5.o1.gs	Method	GENSCAN
Start	463	End	10254
GI	none	Score	.41
Exons	463..555, 4094..4746, 4854..4908, 5891..5961, 6497..6582, 6683..6773, 7222..7352, 7900..8021, 8234..8344, 8533..8578, 8629..8736, 10006..10088, 10205..10254		

Seq. No.	20948	Seq. ID	OJ991217_07.0114.C5
Gene No.	43729	Strand	+
Start	463	End	10254
Name	OJ991217_07.0114.C5.o1.gp	Method	AAT/GAP
Start	6491	End	8760
GI	11159_1.R1084	Score	1064
Exons	6491..6582, 6683..6773, 7222..7290, 8022..8102, 8179..8344, 8533..8578, 8656..8760		
GI Descrip.	'2264315/dbj AB005243.1 AB005243 5.0e-11 Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone: MRN17, complete sequence'		

Seq. No.	20948	Seq. ID	OJ991217_07.0114.C5
Gene No.	43730	Strand	+
Start	13816	End	16865
Name	OJ991217_07.0114.C5.o2.gs	Method	GENSCAN
Start	13816	End	16521
GI	none	Score	.93
Exons	13816..14070, 14112..14315, 14585..14752, 14842..16521		

Seq. No.	20948	Seq. ID	OJ991217_07.0114.C5
Gene No.	43730	Strand	+
Start	13816	End	16865
Name	OJ991217_07.0114.C5.o2.gp	Method	AAT/GAP
Start	15288	End	15733

GI	1632088	Score	777
Exons	15288..15733		
Seq. No.	20948	Seq. ID	OJ991217_07.0114.C5
Gene No.	43730	Strand	+
Start	13816	End	16865
Name	OJ991217_07.0114.C5.o2.np	Method	AAT/NAP
Start	15777	End	16865
GI	4503617	Score	195
Exons	15777..16482, 16788..16865		
GI Descrip.	exostoses (multiple)-like 3 gi 6166159 sp O43909 EXL3_HUMAN EXOSTOSIN-LIKE 3 (PUTATIVE TUMOUR SUPPRESSOR PROTEIN EXTL3) (MULTIPLE EXOSTOSIS-LIKE PROTEIN 3) (HEREDITARY MULTIPLE EXOSTOSES GENE ISOLOG) (KIAA0519) gi 2723391 dbj BAA24080  (AB007042) EXTR1 [Homo sapiens] gi 2897905 (AF001690) EXT like protein 3 [Homo sapiens] gi 3043562 dbj BAA25445  (AB011091) KIAA0519 p		
Seq. No.	20948	Seq. ID	OJ991217_07.0114.C5
Gene No.	43731	Strand	+
Start	26255	End	28677
Name	OJ991217_07.0114.C5.o4.gp	Method	AAT/GAP
Start	26255	End	27869
GI	LIB3432-040-P1-K1-B5	Score	870
Exons	26255..26392, 26480..26693, 26795..26858, 27804..27869		
GI Descrip.	'1653333/dbj BAA18248  7.0e-16 (D90912) ferredoxin [Synechocystis sp.]'		
Seq. No.	20948	Seq. ID	OJ991217_07.0114.C5
Gene No.	43731	Strand	+
Start	26255	End	28677
Name	OJ991217_07.0114.C5.o5.np	Method	AAT/NAP
Start	26622	End	28677
GI	1653333	Score	222
Exons	26622..26693, 26795..26858, 27804..27892, 28403..28471, 28606..28677		
GI Descrip.	(D90912) ferredoxin [Synechocystis sp.]		
Seq. No.	20948	Seq. ID	OJ991217_07.0114.C5
Gene No.	43732	Strand	+
Start	28855	End	29325
Name	OJ991217_07.0114.C5.o5.gp	Method	AAT/GAP
Start	28855	End	29325
GI	none	Score	594
Exons	28855..28909, 29004..29325		
Seq. No.	20948	Seq. ID	OJ991217_07.0114.C5
Gene No.	43733	Strand	+
Start	29549	End	38166
Name	OJ991217_07.0114.C5.o6.np	Method	AAT/NAP
Start	29549	End	32517
GI	4467108	Score	596
Exons	29549..29664, 30892..31375, 31553..31603, 32128..32517		
GI Descrip.	(AL035538) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	20948	Seq. ID	OJ991217_07.0114.C5
Gene No.	43733	Strand	+

Start	29549	End	38166
Name	OJ991217_07.0114.C5.o5.gs	Method	GENSCAN
Start	30717	End	38166
GI	none	Score	.56
Exons	30717..30997, 31096..31375, 31600..31603, 32150..32449, 36738..36839, 37216..37239, 37281..37392, 37668..37805, 38073..38166		

Seq. No.	20948	Seq. ID	OJ991217_07.0114.C5
Gene No.	43734	Strand	-
Start	2659	End	4750
Name	OJ991217_07.0114.C5.o1.np	Method	AAT/NAP
Start	2659	End	4750
GI	746496	Score	83
Exons	2659..2851, 4689..4750		
GI Descrip.	(U23515) weak similarity to adenylyl cyclase-associated protein (CAP) and to P. chabaudi adami major merozoite surface antigen protein (PIR:A32555). Final exon overlaps gene predicted on other strand. [Caenorhabditis elegans]		

Seq. No.	20948	Seq. ID	OJ991217_07.0114.C5
Gene No.	43735	Strand	-
Start	17331	End	19444
Name	OJ991217_07.0114.C5.o3.gs	Method	GENSCAN
Start	17331	End	19378
GI	none	Score	.81
Exons	17331..17378, 18644..18777, 19057..19378		

Seq. No.	20948	Seq. ID	OJ991217_07.0114.C5
Gene No.	43735	Strand	-
Start	17331	End	19444
Name	OJ991217_07.0114.C5.o3.np	Method	AAT/NAP
Start	17844	End	18763
GI	4678330	Score	295
Exons	17844..18042, 18644..18763		
GI Descrip.	(AL049658) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	20948	Seq. ID	OJ991217_07.0114.C5
Gene No.	43735	Strand	-
Start	17331	End	19444
Name	OJ991217_07.0114.C5.o3.gp	Method	AAT/GAP
Start	18671	End	19444
GI	none	Score	926
Exons	18671..18777, 19057..19444		

Seq. No.	20948	Seq. ID	OJ991217_07.0114.C5
Gene No.	43736	Strand	-
Start	24106	End	25235
Name	OJ991217_07.0114.C5.o4.np	Method	AAT/NAP
Start	24106	End	25235
GI	6815053	Score	759
Exons	24106..24342, 24392..24567, 25089..25235		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	20948	Seq. ID	OJ991217_07.0114.C5
Gene No.	43737	Strand	-
Start	39563	End	40397

Name OJ991217\_07.0114.C5.o6.gs  
 Start 39563  
 GI none  
 Exons 39563..39732, 40379..40397

Method GENSCAN  
 End 40397  
 Score .4

Seq. No. 20948  
 Gene No. 43738  
 Start 40672  
 Name OJ991217\_07.0114.C5.o5.tm  
 Start 6680  
 GI none  
 Exons 6680..6775, 6682..6774, 6684..6776, 7208..7291, 7210..7296, 7216..7296, 8011..8103, 8018..8107, 8022..8105, 8178..8222, 8178..8318, 8179..8319, 8179..8322

Seq. ID OJ991217\_07.0114.C5  
 Strand -  
 End 40779  
 Method TBLASTX:Maize  
 End 8322  
 Score 75

Seq. No. 20948  
 Gene No. 43738  
 Start 40672  
 Name OJ991217\_07.0114.C5.o1.tc  
 Start 8184  
 GI none  
 Exons 8184..8357, 8185..8343, 8654..8740, 8654..8722

Seq. ID OJ991217\_07.0114.C5  
 Strand -  
 End 40779  
 Method TBLASTX:Cress  
 End 8740  
 Score 206

Seq. No. 20948  
 Gene No. 43738  
 Start 40672  
 Name OJ991217\_07.0114.C5.o2.ts  
 Start 14582  
 GI none  
 Exons 14582..14701, 14584..14691, 14720..14755, 14839..14874, 14860..15261, 14861..15181, 14953..15354, 15213..15353, 15289..15354, 15361..15423, 15366..15419

Seq. ID OJ991217\_07.0114.C5  
 Strand -  
 End 40779  
 Method TBLASTX:Soybean  
 End 15423  
 Score 135

Seq. No. 20948  
 Gene No. 43738  
 Start 40672  
 Name OJ991217\_07.0114.C5.o2.tm  
 Start 15042  
 GI none  
 Exons 15042..15149, 15043..15432, 15043..15561, 15434..15541, 15493..15561

Seq. ID OJ991217\_07.0114.C5  
 Strand -  
 End 40779  
 Method TBLASTX:Maize  
 End 15561  
 Score 478

Seq. No. 20948  
 Gene No. 43738  
 Start 40672  
 Name OJ991217\_07.0114.C5.o1.ts  
 Start 15631  
 GI none  
 Exons 15631..16335, 15702..16328, 16321..16371, 16332..16376

Seq. ID OJ991217\_07.0114.C5  
 Strand -  
 End 40779  
 Method TBLASTX:Soybean  
 End 16376  
 Score 835

Seq. No. 20948  
 Gene No. 43738  
 Start 40672  
 Name OJ991217\_07.0114.C5.o1.tm  
 Start 15718  
 GI none  
 Exons 15718..16182, 15729..16157, 15733..16179

Seq. ID OJ991217\_07.0114.C5  
 Strand -  
 End 40779  
 Method TBLASTX:Maize  
 End 16182  
 Score 618



Seq. No.	20948	Seq. ID	OJ991217_07.0114.C5
Gene No.	43738	Strand	-
Start	40672	End	40779
Name	OJ991217_07.0114.C5.o3.tc	Method	TBLASTX:Cress
Start	15823	End	16311
GI	none	Score	71
Exons	15823..15909, 15928..16116, 15963..16112, 16151..16198, 16258..16311		

Seq. No.	20948	Seq. ID	OJ991217_07.0114.C5
Gene No.	43738	Strand	-
Start	40672	End	40779
Name	OJ991217_07.0114.C5.o3.tm	Method	TBLASTX:Maize
Start	16185	End	16520
GI	none	Score	134
Exons	16185..16466, 16188..16520, 16192..16515		

Seq. No.	20948	Seq. ID	OJ991217_07.0114.C5
Gene No.	43738	Strand	-
Start	40672	End	40779
Name	OJ991217_07.0114.C5.o2.tc	Method	TBLASTX:Cress
Start	17637	End	18791
GI	none	Score	97
Exons	17637..17753, 17650..17754, 17896..18045, 17897..18043, 18644..18781, 18648..18791, 18648..18791		

Seq. No.	20948	Seq. ID	OJ991217_07.0114.C5
Gene No.	43738	Strand	-
Start	40672	End	40779
Name	OJ991217_07.0114.C5.o4.tm	Method	TBLASTX:Maize
Start	17637	End	19103
GI	none	Score	159
Exons	17637..17753, 17641..17775, 17647..17754, 17896..18045, 17897..18043, 18636..18782, 18643..18774, 18644..18781, 18645..18782, 19050..19103		

Seq. No.	20948	Seq. ID	OJ991217_07.0114.C5
Gene No.	43738	Strand	-
Start	40672	End	40779
Name	OJ991217_07.0114.C5.o3.ts	Method	TBLASTX:Soybean
Start	17682	End	18782
GI	none	Score	69
Exons	17682..17753, 17682..17777, 17893..18039, 17896..18045, 17897..18043, 18644..18781, 18648..18782		

Seq. No.	20948	Seq. ID	OJ991217_07.0114.C5
Gene No.	43738	Strand	-
Start	40672	End	40779
Name	OJ991217_07.0114.C5.o4.ts	Method	TBLASTX:Soybean
Start	26606	End	28900
GI	none	Score	127
Exons	26606..26722, 26610..26714, 26792..26860, 27802..27891, 27803..27892, 27805..27912, 28379..28471, 28400..28471, 28401..28475, 28606..28650, 28748..28792, 28850..28900		

Seq. No.	20948	Seq. ID	OJ991217_07.0114.C5
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Gene No.	43738	Strand	-
Start	40672	End	40779
Name	OJ991217_07.0114.C5.o6.tm	Method	TBLASTX:Maize
Start	30851	End	31151
GI	none	Score	96
Exons	30851..30937, 30860..30997, 30867..30998, 30867..31001, 31070..31150, 31101..31151		
Seq. No.	20948	Seq. ID	OJ991217_07.0114.C5
Gene No.	43738	Strand	-
Start	40672	End	40779
Name	OJ991217_07.0114.C5.o7.gp	Method	AAT/GAP
Start	40672	End	40779
GI	LIB3477-003-P1-K1-E9	Score	149
Exons	40672..40779		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		
Seq. No.	20949	Seq. ID	OJ991217_07.0114.C6
Gene No.	43739	Strand	+
Start	1711	End	6214
Name	OJ991217_07.0114.C6.o1.gs	Method	GENSCAN
Start	1711	End	6214
GI	none	Score	.59
Exons	1711..1807, 4021..4116, 5169..5312, 6193..6214		
Seq. No.	20949	Seq. ID	OJ991217_07.0114.C6
Gene No.	43740	Strand	+
Start	8252	End	11957
Name	OJ991217_07.0114.C6.o2.gp	Method	AAT/GAP
Start	8252	End	8684
GI	52487_1.R1084	Score	849
Exons	8252..8684		
GI Descrip.	'3738324 4.0e-16 (AC005170) GMP synthase-like protein [Arabidopsis thaliana]'		
Seq. No.	20949	Seq. ID	OJ991217_07.0114.C6
Gene No.	43740	Strand	+
Start	8252	End	11957
Name	OJ991217_07.0114.C6.o2.np	Method	AAT/NAP
Start	8432	End	11731
GI	3738324	Score	448
Exons	8432..8746, 11116..11271, 11366..11542, 11633..11731		
GI Descrip.	(AC005170) unknown protein [Arabidopsis thaliana]		
Seq. No.	20949	Seq. ID	OJ991217_07.0114.C6
Gene No.	43740	Strand	+
Start	8252	End	11957
Name	OJ991217_07.0114.C6.o3.gp	Method	AAT/GAP
Start	11489	End	11957
GI	none	Score	737
Exons	11489..11533, 11607..11957		
Seq. No.	20949	Seq. ID	OJ991217_07.0114.C6
Gene No.	43741	Strand	-
Start	2780	End	2868

Name	OJ991217_07.0114.C6.o1.gp	Method	AAT/GAP
Start	2780	End	2868
GI	LIB3477-003-P1-K1-E9	Score	132
Exons	2780..2868		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	20949	Seq. ID	OJ991217_07.0114.C6
Gene No.	43742	Strand	-
Start	3921	End	4018
Name	OJ991217_07.0114.C6.o1.np	Method	AAT/NAP
Start	3921	End	4018
GI	3617814	Score	72
Exons	3921..4018		
GI Descrip.	(AJ009982) NADH dehydrogenase subunit 6 [Daucus carota]		

Seq. No.	20949	Seq. ID	OJ991217_07.0114.C6
Gene No.	43743	Strand	
Start	8334	End	11727
Name	OJ991217_07.0114.C6.o1.tw	Method	TBLASTX:Wheat
Start	8334	End	8670
GI	none	Score	37
Exons	8334..8369, 8444..8620, 8445..8573, 8462..8668, 8464..8670		

Seq. No.	20949	Seq. ID	OJ991217_07.0114.C6
Gene No.	43743	Strand	
Start	8334	End	11727
Name	OJ991217_07.0114.C6.o1.tm	Method	TBLASTX:Maize
Start	8450	End	8719
GI	none	Score	94
Exons	8450..8620, 8451..8573, 8462..8719, 8464..8718		

Seq. No.	20949	Seq. ID	OJ991217_07.0114.C6
Gene No.	43743	Strand	
Start	8334	End	11727
Name	OJ991217_07.0114.C6.o1.ts	Method	TBLASTX:Soybean
Start	8462	End	11722
GI	none	Score	288
Exons	8462..8749, 8467..8526, 8623..8688, 8713..8745, 11113..11274, 11124..11249, 11363..11551, 11372..11551, 11641..11715, 11642..11722		

Seq. No.	20949	Seq. ID	OJ991217_07.0114.C6
Gene No.	43743	Strand	
Start	8334	End	11727
Name	OJ991217_07.0114.C6.o1.tc	Method	TBLASTX:Cress
Start	8477	End	11722
GI	none	Score	253
Exons	8477..8749, 11636..11722		

Seq. No.	20949	Seq. ID	OJ991217_07.0114.C6
Gene No.	43743	Strand	
Start	8334	End	11727
Name	OJ991217_07.0114.C6.o2.tw	Method	TBLASTX:Wheat
Start	11215	End	11530
GI	none	Score	53

Exons 11215..11274, 11233..11274, 11363..11530, 11363..11530

Seq. No. 20949 Seq. ID OJ991217\_07.0114.C6  
Gene No. 43743 Strand  
Start 8334 End 11727  
Name OJ991217\_07.0114.C6.o2.tm Method TBLASTX:Maize  
Start 11242 End 11727  
GI none Score 58  
Exons 11242..11274, 11358..11432, 11363..11533, 11363..11542,  
11623..11703, 11624..11722, 11624..11722, 11629..11727

Seq. No. 20950 Seq. ID OJ991217\_07.0114.C7  
Gene No. 43744 Strand +  
Start 401 End 814  
Name OJ991217\_07.0114.C7.o1.gs Method GENSCAN  
Start 401 End 814  
GI none Score .43  
Exons 401..539, 691..814

Seq. No. 20950 Seq. ID OJ991217\_07.0114.C7  
Gene No. 43745 Strand +  
Start 6320 End 6747  
Name OJ991217\_07.0114.C7.o2.gp Method AAT/GAP  
Start 6320 End 6747  
GI 1600\_1.R1084 Score 822  
Exons 6320..6747  
GI Descrip. '3413423/emb|CAA06976.1| 2.0e-15 (AJ006309) hypothetical protein  
[Arabidopsis thaliana]'

Seq. No. 20950 Seq. ID OJ991217\_07.0114.C7  
Gene No. 43746 Strand +  
Start 10198 End 11053  
Name OJ991217\_07.0114.C7.o3.gs Method GENSCAN  
Start 10198 End 11053  
GI none Score .83  
Exons 10198..10278, 10407..10584, 10603..10784, 10898..11053

Seq. No. 20950 Seq. ID OJ991217\_07.0114.C7  
Gene No. 43747 Strand -  
Start 2629 End 13934  
Name OJ991217\_07.0114.C7.o1.gp Method AAT/GAP  
Start 2312 End 5760  
GI 14297\_1.R1084 Score 1509  
Exons 2312..2718, 3090..3262, 3354..3434, 3626..3679, 5626..5760  
GI Descrip. '2618602/dbj|AB008268.1|AB008268 1.0e-15 Arabidopsis thaliana  
genomic DNA, chromosome 5, P1 clone: MSJ1, complete sequence'

Seq. No. 20950 Seq. ID OJ991217\_07.0114.C7  
Gene No. 43747 Strand -  
Start 2629 End 13934  
Name OJ991217\_07.0114.C7.o2.tm Method TBLASTX:Maize  
Start 2518 End 3436  
GI none Score 36  
Exons 2518..2580, 2625..2687, 2626..2721, 2630..2713, 2647..2718,  
3090..3125, 3091..3126, 3153..3260, 3154..3204, 3155..3265,  
3168..3272, 3350..3436, 3351..3395, 3352..3435

Seq. No.	20950	Seq. ID	OJ991217_07.0114.C7
Gene No.	43747	Strand	-
Start	2629	End	13934
Name	OJ991217_07.0114.C7.o2.gs	Method	GENSCAN
Start	2629	End	10087
GI	none	Score	.55
Exons	2629..2718, 3090..3262, 3354..3434, 3626..3679, 5435..5596, 5626..5675, 5845..6096, 6553..6990, 7072..7130, 7267..7382, 7459..7542, 7747..7894, 8028..8173, 8680..8799, 8970..9068, 9857..9898, 9985..10087		

Seq. No.	20950	Seq. ID	OJ991217_07.0114.C7
Gene No.	43747	Strand	-
Start	2629	End	13934
Name	OJ991217_07.0114.C7.o2.tw	Method	TBLASTX:Wheat
Start	2632	End	10348
GI	none	Score	112
Exons	2632..2721, 2647..2718, 3090..3125, 3091..3177, 3092..3115, 3116..3262, 3136..3204, 3168..3272, 3169..3264, 3244..3273, 3356..3406, 3628..3669, 10292..10348		

Seq. No.	20950	Seq. ID	OJ991217_07.0114.C7
Gene No.	43747	Strand	-
Start	2629	End	13934
Name	OJ991217_07.0114.C7.o2.ts	Method	TBLASTX:Soybean
Start	2647	End	3429
GI	none	Score	139
Exons	2647..2718, 3090..3125, 3154..3204, 3168..3272, 3169..3264, 3247..3285, 3350..3409, 3352..3429		

Seq. No.	20950	Seq. ID	OJ991217_07.0114.C7
Gene No.	43747	Strand	-
Start	2629	End	13934
Name	OJ991217_07.0114.C7.o1.tm	Method	TBLASTX:Maize
Start	6468	End	10056
GI	none	Score	270
Exons	6468..6791, 6531..6776, 6544..6777, 6567..6743, 6898..7002, 6900..7001, 6907..7002, 7068..7133, 7072..7131, 7225..7383, 7262..7387, 7265..7384, 7457..7546, 7458..7547, 7459..7554, 7725..7895, 7745..7894, 8012..8164, 8028..8186, 8028..8171, 8029..8178, 8040..8174, 8082..8177, 8678..8800, 8679..8801, 8685..8801, 9985..10056		

Seq. No.	20950	Seq. ID	OJ991217_07.0114.C7
Gene No.	43747	Strand	-
Start	2629	End	13934
Name	OJ991217_07.0114.C7.o1.ts	Method	TBLASTX:Soybean
Start	6468	End	8174
GI	none	Score	54
Exons	6468..6773, 7309..7383, 7331..7384, 7457..7546, 7458..7547, 7729..7848, 7734..7895, 7736..7897, 7745..7894, 8073..8174		

Seq. No.	20950	Seq. ID	OJ991217_07.0114.C7
Gene No.	43747	Strand	-
Start	2629	End	13934
Name	OJ991217_07.0114.C7.o1.np	Method	AAT/NAP
Start	6559	End	13934

GI 3023956 Score 238  
 Exons 6559..6772, 7100..7130, 7267..7371, 7457..7542, 7747..7894,  
 8028..8173, 8680..8799, 13873..13934  
 GI Descrip. VEGETATIBLE INCOMPATIBILITY PROTEIN HET-E-1 gi|607003 (L28125)  
 beta transducin-like protein [Podospora anserina]

Seq. No. 20950 Seq. ID OJ991217\_07.0114.C7  
 Gene No. 43747 Strand -  
 Start 2629 End 13934  
 Name OJ991217\_07.0114.C7.o1.tw Method TBLASTX:Wheat  
 Start 6567 End 8174  
 GI none Score 85  
 Exons 6567..6773, 6621..6740, 7304..7384, 7306..7383, 7457..7546,  
 7458..7547, 7462..7548, 7725..7895, 7727..7900, 7745..7894,  
 8029..8046, 8040..8174, 8043..8087, 8046..8087

Seq. No. 20950 Seq. ID OJ991217\_07.0114.C7  
 Gene No. 43747 Strand -  
 Start 2629 End 13934  
 Name OJ991217\_07.0114.C7.o3.gp Method AAT/GAP  
 Start 6629 End 7130  
 GI 2800801 Score 443  
 Exons 6629..6776, 6900..6990, 7072..7130  
 GI Descrip. 3413423/emb|CAA06976.1| 2.0e-15 (AJ006309) hypothetical protein  
 [Arabidopsis thaliana]

Seq. No. 20950 Seq. ID OJ991217\_07.0114.C7  
 Gene No. 43747 Strand -  
 Start 2629 End 13934  
 Name OJ991217\_07.0114.C7.o4.gp Method AAT/GAP  
 Start 7851 End 10014  
 GI LIB3431-027-P1-K1-A11 Score 729  
 Exons 7851..7894, 8028..8173, 8680..8799, 9021..9068, 9857..9898,  
 9985..10014  
 GI Descrip. '4557229/ref|NP\_001078.1|pAAMP| 4.0e-18 angio-associated,  
 migratory cell protein >gi\_3121739\_sp\_Q13685\_AAMP\_HUMAN  
 ANGIO-ASSOCIATED MIGRATORY CELL PROTEIN >gi\_2134759\_pir\_I39383  
 angio-associated migratory cell protein - human >gi\_870803  
 (M95627) angio-associated migratory cell protein [Homo sapiens]'

Seq. No. 20951 Seq. ID OJ991217\_07.0114.C8  
 Gene No. 43748 Strand +  
 Start 501 End 4541  
 Name OJ991217\_07.0114.C8.o1.gs Method GENSCAN  
 Start 501 End 4541  
 GI none Score .96  
 Exons 501..652, 811..2771, 4190..4337, 4428..4541

Seq. No. 20951 Seq. ID OJ991217\_07.0114.C8  
 Gene No. 43748 Strand +  
 Start 501 End 4541  
 Name OJ991217\_07.0114.C8.o1.tm Method TBLASTX:Maize  
 Start 2523 End 2825  
 GI none Score 357  
 Exons 2523..2825, 2523..2777

Seq. No. 20952 Seq. ID OJ991217\_07.0114.C9

Gene No. 43749 Strand +  
 Start 173 End 8832  
 Name OJ991217\_07.0114.C9.o1.gs Method GENSCAN  
 Start 173 End 5610  
 GI none Score .77  
 Exons 173..408, 522..732, 826..981, 1099..1256, 1341..1533,  
 1825..2216, 2347..2527, 2612..2841, 2918..3563, 3643..3712,  
 3804..4016, 4428..4538, 4630..4837, 4917..5038, 5567..5610

Seq. No. 20952 Seq. ID OJ991217\_07.0114.C9  
 Gene No. 43749 Strand +  
 Start 173 End 8832  
 Name OJ991217\_07.0114.C9.o1.gp Method AAT/GAP  
 Start 4641 End 8832  
 GI 3862\_1.R1084 Score 1246  
 Exons 4641..5038, 8566..8832  
 GI Descrip. '3258571 4.0e-22 (U89959) Hypothetical protein [Arabidopsis thaliana]'

Seq. No. 20952 Seq. ID OJ991217\_07.0114.C9  
 Gene No. 43749 Strand +  
 Start 173 End 8832  
 Name OJ991217\_07.0114.C9.o1.np Method AAT/NAP  
 Start 4731 End 5024  
 GI 2760334 Score 365  
 Exons 4731..5024  
 GI Descrip. (AC002130) F1N21.5 [Arabidopsis thaliana]

Seq. No. 20952 Seq. ID OJ991217\_07.0114.C9  
 Gene No. 43750 Strand -  
 Start 6161 End 7997  
 Name OJ991217\_07.0114.C9.o2.gs Method GENSCAN  
 Start 6161 End 7997  
 GI none Score .76  
 Exons 6161..6384, 6396..6656, 6699..6795, 7983..7997

Seq. No. 20952 Seq. ID OJ991217\_07.0114.C9  
 Gene No. 43751 Strand -  
 Start 9892 End 10603  
 Name OJ991217\_07.0114.C9.o1.tc Method TBLASTX:Cress  
 Start 1467 End 2695  
 GI none Score 80  
 Exons 1467..1538, 1468..1536, 1992..2216, 1993..2217, 2002..2217,  
 2012..2221, 2013..2222, 2344..2439, 2345..2527, 2345..2470,  
 2346..2552, 2630..2695

Seq. No. 20952 Seq. ID OJ991217\_07.0114.C9  
 Gene No. 43751 Strand -  
 Start 9892 End 10603  
 Name OJ991217\_07.0114.C9.o4.ts Method TBLASTX:Soybean  
 Start 2116 End 2758  
 GI none Score 151  
 Exons 2116..2217, 2139..2222, 2344..2514, 2345..2527, 2611..2682,  
 2630..2758

Seq. No. 20952 Seq. ID OJ991217\_07.0114.C9  
 Gene No. 43751 Strand -

Start	9892	End	10603
Name	OJ991217_07.0114.C9.o1.tm	Method	TBLASTX:Maize
Start	2681	End	3436
GI	none	Score	242
Exons	2681..2839, 2687..2845, 2710..2844, 2908..3231, 2915..3280, 2915..3094, 2916..3281, 2919..3278, 3152..3280, 3228..3431, 3278..3427, 3283..3432, 3284..3436		

Seq. No.	20952	Seq. ID	OJ991217_07.0114.C9
Gene No.	43751	Strand	-
Start	9892	End	10603
Name	OJ991217_07.0114.C9.o3.ts	Method	TBLASTX:Soybean
Start	2982	End	3389
GI	none	Score	154
Exons	2982..3158, 2990..3094, 3147..3389, 3170..3388		

Seq. No.	20952	Seq. ID	OJ991217_07.0114.C9
Gene No.	43751	Strand	-
Start	9892	End	10603
Name	OJ991217_07.0114.C9.o4.tm	Method	TBLASTX:Maize
Start	3450	End	3570
GI	none	Score	190
Exons	3450..3566, 3452..3562, 3469..3570		

Seq. No.	20952	Seq. ID	OJ991217_07.0114.C9
Gene No.	43751	Strand	-
Start	9892	End	10603
Name	OJ991217_07.0114.C9.o1.ts	Method	TBLASTX:Soybean
Start	4731	End	4991
GI	none	Score	315
Exons	4731..4763, 4748..4951, 4752..4991		

Seq. No.	20952	Seq. ID	OJ991217_07.0114.C9
Gene No.	43751	Strand	-
Start	9892	End	10603
Name	OJ991217_07.0114.C9.o1.tw	Method	TBLASTX:Wheat
Start	4731	End	4991
GI	none	Score	374
Exons	4731..4769, 4748..4951, 4752..4991		

Seq. No.	20952	Seq. ID	OJ991217_07.0114.C9
Gene No.	43751	Strand	-
Start	9892	End	10603
Name	OJ991217_07.0114.C9.o2.tm	Method	TBLASTX:Maize
Start	4731	End	4991
GI	none	Score	389
Exons	4731..4769, 4751..4951, 4752..4991		

Seq. No.	20952	Seq. ID	OJ991217_07.0114.C9
Gene No.	43751	Strand	-
Start	9892	End	10603
Name	OJ991217_07.0114.C9.o2.tc	Method	TBLASTX:Cress
Start	4731	End	5069
GI	none	Score	305
Exons	4731..4763, 4748..4951, 4752..5069		

Seq. No.	20952	Seq. ID	OJ991217_07.0114.C9
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Gene No. 43751  
 Start 9892  
 Name OJ991217\_07.0114.C9.o3.gs  
 Start 9892  
 GI none  
 Exons 9892..10210, 10299..10603

Strand -  
 End 10603  
 Method GENSCAN  
 End 10603  
 Score .48

Seq. No. 20952  
 Gene No. 43751  
 Start 9892  
 Name OJ991217\_07.0114.C9.o3.tm  
 Start 9929  
 GI none  
 Exons 9929..10060, 9931..10056, 10056..10172, 10066..10167, 10209..10406, 10211..10483

Seq. ID OJ991217\_07.0114.C9  
 Strand -  
 End 10603  
 Method TBLASTX:Maize  
 End 10483  
 Score 42

Seq. No. 20952  
 Gene No. 43751  
 Start 9892  
 Name OJ991217\_07.0114.C9.o2.ts  
 Start 9931  
 GI none  
 Exons 9931..10056, 9959..10060, 10056..10172, 10066..10167, 10209..10412, 10211..10483

Seq. ID OJ991217\_07.0114.C9  
 Strand -  
 End 10603  
 Method TBLASTX:Soybean  
 End 10483  
 Score 45

Seq. No. 20952  
 Gene No. 43751  
 Start 9892  
 Name OJ991217\_07.0114.C9.o3.tc  
 Start 10205  
 GI none  
 Exons 10205..10480

Seq. ID OJ991217\_07.0114.C9  
 Strand -  
 End 10603  
 Method TBLASTX:Cress  
 End 10480  
 Score 194

Seq. No. 20953  
 Gene No. 43752  
 Start 1  
 Name OJ991217\_05.0131.C2.o1.gp  
 Start 1  
 GI 342 1.R1084  
 Exons 1..1612, 1731..1835, 1945..2290  
 GI Descrip. '4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'

Seq. ID OJ991217\_05.0131.C2  
 Strand +  
 End 2459  
 Method AAT/GAP  
 End 2290  
 Score 3636

Seq. No. 20953  
 Gene No. 43752  
 Start 1  
 Name OJ991217\_05.0131.C2.o1.np  
 Start 1  
 GI 6742729  
 Exons 1..969  
 GI Descrip. (AF121139) RIM2 protein [Oryza sativa]

Seq. ID OJ991217\_05.0131.C2  
 Strand +  
 End 2459  
 Method AAT/NAP  
 End 969  
 Score 1528

Seq. No. 20953  
 Gene No. 43752  
 Start 1  
 Name OJ991217\_05.0131.C2.o2.gp  
 Start 1

Seq. ID OJ991217\_05.0131.C2  
 Strand +  
 End 2459  
 Method AAT/GAP  
 End 2282

GI 342.1.R1084 Score 3620  
 Exons 1..1612, 1731..1835, 1945..2282  
 GI Descrip. '4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'

Seq. No. 20953 Seq. ID OJ991217\_05.0131.C2  
 Gene No. 43752 Strand +  
 Start 1 End 2459  
 Name OJ991217\_05.0131.C2.o3.gp Method AAT/GAP  
 Start 1 End 2459  
 GI 342.1.R1084 Score 3935  
 Exons 1..1612, 1731..1835, 1945..2459  
 GI Descrip. '4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'

Seq. No. 20953 Seq. ID OJ991217\_05.0131.C2  
 Gene No. 43752 Strand +  
 Start 1 End 2459  
 Name OJ991217\_05.0131.C2.o1.gs Method GENSCAN  
 Start 86 End 1528  
 GI none Score .96  
 Exons 86..1528

Seq. No. 20953 Seq. ID OJ991217\_05.0131.C2  
 Gene No. 43752 Strand +  
 Start 1 End 2459  
 Name OJ991217\_05.0131.C2.o1.tw Method TBLASTX:Wheat  
 Start 136 End 1453  
 GI none Score 877  
 Exons 136..1038, 137..1054, 1049..1093, 1053..1088, 1096..1191, 1100..1159, 1138..1278, 1139..1279, 1207..1287, 1292..1372, 1361..1453, 1387..1452

Seq. No. 20953 Seq. ID OJ991217\_05.0131.C2  
 Gene No. 43752 Strand +  
 Start 1 End 2459  
 Name OJ991217\_05.0131.C2.o1.tm Method TBLASTX:Maize  
 Start 179 End 493  
 GI none Score 316  
 Exons 179..493, 190..465, 263..493

Seq. No. 20953 Seq. ID OJ991217\_05.0131.C2  
 Gene No. 43752 Strand +  
 Start 1 End 2459  
 Name OJ991217\_05.0131.C2.o1.tc Method TBLASTX:Cress  
 Start 420 End 871  
 GI none Score 175  
 Exons 420..602, 424..861, 424..867, 428..871, 434..871

Seq. No. 20954 Seq. ID OJ991217\_05.0131.C3  
 Gene No. 43753 Strand +  
 Start 152 End 5273  
 Name OJ991217\_05.0131.C3.o1.gs Method GENSCAN  
 Start 152 End 5268  
 GI none Score .51  
 Exons 152..250, 454..698, 1594..3015, 3090..3231, 3357..3499, 3501..4186, 4296..4469, 4566..4676, 4761..4833, 4928..5026,

5106..5268

Seq. No.	20954	Seq. ID	OJ991217_05.0131.C3
Gene No.	43753	Strand	+
Start	152	End	5273
Name	OJ991217_05.0131.C3.o1.np	Method	AAT/NAP
Start	1579	End	5273
GI	4680204	Score	1046
Exons	1579..3015, 3090..4186, 4296..4469, 4566..4785, 5136..5273		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	20954	Seq. ID	OJ991217_05.0131.C3
Gene No.	43753	Strand	+
Start	152	End	5273
Name	OJ991217_05.0131.C3.o1.tw	Method	TBLASTX:Wheat
Start	2222	End	2625
GI	none	Score	62
Exons	2222..2362, 2222..2332, 2224..2460, 2224..2373, 2325..2492, 2455..2625		

Seq. No.	20954	Seq. ID	OJ991217_05.0131.C3
Gene No.	43753	Strand	+
Start	152	End	5273
Name	OJ991217_05.0131.C3.o2.tw	Method	TBLASTX:Wheat
Start	4113	End	4635
GI	none	Score	60
Exons	4113..4193, 4282..4464, 4332..4457, 4564..4635		

Seq. No.	20955	Seq. ID	OJ991217_05.0131.C4
Gene No.	43754	Strand	-
Start	1	End	522
Name	OJ991217_05.0131.C4.o1.gp	Method	AAT/GAP
Start	1	End	105
GI	LIB3477-003-P1-K1-E9	Score	167
Exons	1..105		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	20955	Seq. ID	OJ991217_05.0131.C4
Gene No.	43754	Strand	-
Start	1	End	522
Name	OJ991217_05.0131.C4.o1.np	Method	AAT/NAP
Start	1	End	522
GI	6006375	Score	501
Exons	1..172, 220..522		
GI Descrip.	(AP000559) Similar to ORF3 protein - rice tungro bacilliform virus &RTUORFS_2 (C40785) [Oryza sativa]		

Seq. No.	20956	Seq. ID	OJ991217_05.0131.C7
Gene No.	43755	Strand	+
Start	384	End	1701
Name	OJ991217_05.0131.C7.o1.gp	Method	AAT/GAP
Start	384	End	885
GI	LIB3475-010-P1-K1-A11	Score	327
Exons	384..408, 518..623, 697..774, 848..885		
GI Descrip.	'5080816/gb AAD39325.1 AC007258_14 1.0e-32 (AC007258) Putative		

## ATPase [Arabidopsis thaliana]'

Seq. No.	20956	Seq. ID	OJ991217_05.0131.C7
Gene No.	43755	Strand	+
Start	384	End	1701
Name	OJ991217_05.0131.C7.o2.gp	Method	AAT/GAP
Start	457	End	958
GI	LIB3475-010-P1-K1-A11	Score	446
Exons	457..623, 697..774, 848..958		
GI Descrip.	'5080816/gb AAD39325.1 AC007258_14 1.0e-32 (AC007258) Putative ATPase [Arabidopsis thaliana]'		

Seq. No.	20956	Seq. ID	OJ991217_05.0131.C7
Gene No.	43755	Strand	+
Start	384	End	1701
Name	OJ991217_05.0131.C7.o1.np	Method	AAT/NAP
Start	697	End	1701
GI	5080816	Score	454
Exons	697..774, 848..964, 1383..1530, 1613..1701		
GI Descrip.	(AC007258) Putative ATPase [Arabidopsis thaliana]		

Seq. No.	20956	Seq. ID	OJ991217_05.0131.C7
Gene No.	43755	Strand	+
Start	384	End	1701
Name	OJ991217_05.0131.C7.o1.gs	Method	GENSCAN
Start	848	End	1538
GI	none	Score	.63
Exons	848..964, 1383..1538		

Seq. No.	20957	Seq. ID	OJ991217_05.0131.C8
Gene No.	43756	Strand	+
Start	1	End	4170
Name	OJ991217_05.0131.C8.o1.np	Method	AAT/NAP
Start	1	End	3595
GI	5080816	Score	1995
Exons	1..117, 202..414, 820..985, 1119..1198, 1815..2054, 2464..2685, 2759..2926, 3002..3364, 3461..3595		
GI Descrip.	(AC007258) Putative ATPase [Arabidopsis thaliana]		

Seq. No.	20957	Seq. ID	OJ991217_05.0131.C8
Gene No.	43756	Strand	+
Start	1	End	4170
Name	OJ991217_05.0131.C8.o1.gs	Method	GENSCAN
Start	202	End	4074
GI	none	Score	.88
Exons	202..394, 1119..1198, 1815..2054, 2464..2685, 2759..2926, 3002..3364, 3461..3567, 3774..4074		

Seq. No.	20957	Seq. ID	OJ991217_05.0131.C8
Gene No.	43756	Strand	+
Start	1	End	4170
Name	OJ991217_05.0131.C8.o4.tm	Method	TBLASTX:Maize
Start	253	End	1023
GI	none	Score	107
Exons	253..336, 254..334, 255..335, 334..408, 336..410, 828..983, 828..995, 829..1005, 829..1023		

Seq. No.	20957	Seq. ID	OJ991217_05.0131.C8
Gene No.	43756	Strand	+
Start	1	End	4170
Name	OJ991217_05.0131.C8.o3.ts	Method	TBLASTX:Soybean
Start	828	End	1907
GI	none	Score	231
Exons	828..1004, 829..1023, 829..1023, 1117..1197, 1118..1198, 1121..1198, 1812..1907		

Seq. No.	20957	Seq. ID	OJ991217_05.0131.C8
Gene No.	43756	Strand	+
Start	1	End	4170
Name	OJ991217_05.0131.C8.o3.tm	Method	TBLASTX:Maize
Start	1124	End	2062
GI	none	Score	104
Exons	1124..1198, 1126..1194, 1815..2054, 1817..2062, 1818..2057		

Seq. No.	20957	Seq. ID	OJ991217_05.0131.C8
Gene No.	43756	Strand	+
Start	1	End	4170
Name	OJ991217_05.0131.C8.o1.gp	Method	AAT/GAP
Start	1821	End	2674
GI	2312442	Score	862
Exons	1821..2054, 2464..2674		
GI Descrip.	5080816/gb AAD39325.1 AC007258_14 2.0e-60 (AC007258) Putative ATPase [Arabidopsis thaliana]		

Seq. No.	20957	Seq. ID	OJ991217_05.0131.C8
Gene No.	43756	Strand	+
Start	1	End	4170
Name	OJ991217_05.0131.C8.o1.ts	Method	TBLASTX:Soybean
Start	1910	End	3076
GI	none	Score	129
Exons	1910..2062, 1911..2057, 2463..2657, 2464..2688, 2551..2688, 2750..2926, 2755..2922, 2999..3076		

Seq. No.	20957	Seq. ID	OJ991217_05.0131.C8
Gene No.	43756	Strand	+
Start	1	End	4170
Name	OJ991217_05.0131.C8.o1.tm	Method	TBLASTX:Maize
Start	2499	End	3190
GI	none	Score	311
Exons	2499..2702, 2500..2688, 2558..2692, 2740..2946, 2750..2926, 2758..2934, 2999..3190, 2999..3184, 3001..3189		

Seq. No.	20957	Seq. ID	OJ991217_05.0131.C8
Gene No.	43756	Strand	+
Start	1	End	4170
Name	OJ991217_05.0131.C8.o2.gp	Method	AAT/GAP
Start	2786	End	3582
GI	16650_1.R1084	Score	1080
Exons	2786..2926, 3002..3364, 3461..3582		
GI Descrip.	'5080816/gb AAD39325.1 AC007258_14 2.0e-77 (AC007258) Putative ATPase [Arabidopsis thaliana]'		

Seq. No.	20957	Seq. ID	OJ991217_05.0131.C8
Gene No.	43756	Strand	+

Start	1	End	4170
Name	OJ991217_05.0131.C8.o1.tc	Method	TBLASTX:Cress
Start	2821	End	3124
GI	none	Score	114
Exons	2821..2934, 2837..2926, 2999..3124, 3001..3093		
Seq. No.	20957	Seq. ID	OJ991217_05.0131.C8
Gene No.	43756	Strand	+
Start	1	End	4170
Name	OJ991217_05.0131.C8.o2.ts	Method	TBLASTX:Soybean
Start	3182	End	4075
GI	none	Score	140
Exons	3182..3328, 3184..3333, 3184..3348, 3185..3364, 3454..3531, 3454..3555, 3458..3556, 3761..3832, 3777..3869, 3778..3867, 3846..4061, 3871..4065, 3884..4075		
Seq. No.	20957	Seq. ID	OJ991217_05.0131.C8
Gene No.	43756	Strand	+
Start	1	End	4170
Name	OJ991217_05.0131.C8.o2.tm	Method	TBLASTX:Maize
Start	3297	End	4056
GI	none	Score	103
Exons	3297..3365, 3298..3366, 3299..3364, 3449..3556, 3457..3585, 3460..3567, 3768..4046, 3778..4056		
Seq. No.	20957	Seq. ID	OJ991217_05.0131.C8
Gene No.	43756	Strand	+
Start	1	End	4170
Name	OJ991217_05.0131.C8.o3.gp	Method	AAT/GAP
Start	3889	End	4170
GI	3767869	Score	513
Exons	3889..4170		
Seq. No.	20958	Seq. ID	OJ991217_05.0131.C9
Gene No.	43757	Strand	-
Start	181	End	899
Name	OJ991217_05.0131.C9.o1.gs	Method	GENSCAN
Start	181	End	769
GI	none	Score	.72
Exons	181..320, 604..769		
Seq. No.	20958	Seq. ID	OJ991217_05.0131.C9
Gene No.	43757	Strand	-
Start	181	End	899
Name	OJ991217_05.0131.C9.o1.np	Method	AAT/NAP
Start	604	End	899
GI	5777617	Score	77
Exons	604..899		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		
Seq. No.	20959	Seq. ID	OJ991217_05.0131.C10
Gene No.	43758	Strand	+
Start	1	End	270
Name	OJ991217_05.0131.C10.o1.gp	Method	AAT/GAP
Start	1	End	270
GI	uC-osflcyp126f10b1	Score	528
Exons	1..270		

GI Descrip. '3915039/sp|Q41144|STC\_RICCO 1.0e-15 SUGAR CARRIER PROTEIN C  
>gi\_169718 (L08196) sugar carrier protein [Ricinus communis]'

Seq. No. 20959 Seq. ID OJ991217\_05.0131.C10  
Gene No. 43759 Strand +  
Start 5919 End 27424  
Name OJ991217\_05.0131.C10.o2.gs Method GENSCAN  
Start 5919 End 27424  
GI none Score .66  
Exons 5919..5981, 7791..8265, 8322..8405, 8449..8495, 9680..9775,  
9989..10058, 10488..10543, 11359..11415, 11534..11579,  
12652..12753, 12968..13081, 13458..13588, 13618..14310,  
14413..14499, 14566..14652, 15034..15177, 17656..17781,  
19723..19988, 20519..20684, 22184..22225, 23050..23075,  
26109..26327, 26691..26884, 27411..27424

Seq. No. 20959 Seq. ID OJ991217\_05.0131.C10  
Gene No. 43759 Strand +  
Start 5919 End 27424  
Name OJ991217\_05.0131.C10.o3.np Method AAT/NAP  
Start 13617 End 16796  
GI 5852172 Score 88  
Exons 13617..13668, 16685..16796  
GI Descrip. (AL117265) zhb0002.1 [Oryza sativa]

Seq. No. 20959 Seq. ID OJ991217\_05.0131.C10  
Gene No. 43759 Strand +  
Start 5919 End 27424  
Name OJ991217\_05.0131.C10.o6.gp Method AAT/GAP  
Start 20752 End 20832  
GI LIB3477-003-P1-K1-E9 Score 114  
Exons 20752..20832  
GI Descrip. '2498586/sp|Q40638|MP01\_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY  
S 1 PRECURSOR (ORY S I) >gi\_1173557 (U31771) Ory s 1 [Oryza  
sativa]'

Seq. No. 20959 Seq. ID OJ991217\_05.0131.C10  
Gene No. 43760 Strand +  
Start 28960 End 29638  
Name OJ991217\_05.0131.C10.o3.gs Method GENSCAN  
Start 28960 End 29622  
GI none Score .8  
Exons 28960..29622

Seq. No. 20959 Seq. ID OJ991217\_05.0131.C10  
Gene No. 43760 Strand +  
Start 28960 End 29638  
Name OJ991217\_05.0131.C10.o4.np Method AAT/NAP  
Start 28987 End 29638  
GI 3335359 Score 417  
Exons 28987..29638  
GI Descrip. (AC003028) unknown protein [Arabidopsis thaliana]

Seq. No. 20959 Seq. ID OJ991217\_05.0131.C10  
Gene No. 43761 Strand -  
Start 4091 End 4844  
Name OJ991217\_05.0131.C10.o1.np Method AAT/NAP

Start	4091	End	4844
GI	5823278	Score	413
Exons	4091..4844		
GI Descrip.	(AF175270) osmotin-like protein [Benincasa hispida]		

Seq. No.	20959	Seq. ID	OJ991217_05.0131.C10
Gene No.	43761	Strand	-
Start	4091	End	4844
Name	OJ991217_05.0131.C10.o2.gp	Method	AAT/GAP
Start	4553	End	4823
GI	2442546	Score	490
Exons	4553..4823		
GI Descrip.	2501182/sp Q41350 OLP1_LYCES 1.0e-08 OSMOTIN-LIKE PROTEIN PRECURSOR >gi_2129934_pir_JC5237 osmotin-like protein - tomato >gi_1220537 (L76632) osmotin-like protein [Lycopersicon esculentum]		

Seq. No.	20959	Seq. ID	OJ991217_05.0131.C10
Gene No.	43762	Strand	-
Start	12709	End	13071
Name	OJ991217_05.0131.C10.o4.gp	Method	AAT/GAP
Start	12709	End	13071
GI	20886_2.R1084	Score	539
Exons	12709..13071		
GI Descrip.	'5257255/dbj AP000364.1 AP000364 8.0e-24 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	20959	Seq. ID	OJ991217_05.0131.C10
Gene No.	43763	Strand	-
Start	13161	End	14536
Name	OJ991217_05.0131.C10.o1.ts	Method	TBLASTX:Soybean
Start	4085	End	4768
GI	none	Score	47
Exons	4085..4156, 4142..4261, 4310..4369, 4412..4456, 4422..4460, 4472..4567, 4485..4568, 4610..4768, 4611..4661, 4683..4766		

Seq. No.	20959	Seq. ID	OJ991217_05.0131.C10
Gene No.	43763	Strand	-
Start	13161	End	14536
Name	OJ991217_05.0131.C10.o1.tc	Method	TBLASTX:Cress
Start	4142	End	4768
GI	none	Score	41
Exons	4142..4261, 4308..4367, 4310..4369, 4412..4456, 4425..4460, 4484..4567, 4485..4568, 4589..4768, 4611..4766		

Seq. No.	20959	Seq. ID	OJ991217_05.0131.C10
Gene No.	43763	Strand	-
Start	13161	End	14536
Name	OJ991217_05.0131.C10.o1.tm	Method	TBLASTX:Maize
Start	4305	End	4618
GI	none	Score	100
Exons	4305..4382, 4310..4381, 4383..4586, 4385..4618		

Seq. No.	20959	Seq. ID	OJ991217_05.0131.C10
Gene No.	43763	Strand	-
Start	13161	End	14536
Name	OJ991217_05.0131.C10.o2.tm	Method	TBLASTX:Maize



Start 4619  
 GI none  
 Exons 4619..4807, 4620..4808

End 4808  
 Score 227

Seq. No. 20959  
 Gene No. 43763  
 Start 13161  
 Name OJ991217\_05.0131.C10.o2.np  
 Start 13161  
 GI 6907106  
 Exons 13161..13406, 13517..13639, 14057..14499  
 GI Descrip. (AP001129) EST AU068291(C12960) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. ID OJ991217\_05.0131.C10  
 Strand -  
 End 14536  
 Method AAT/NAP  
 End 14499  
 Score 373

Seq. No. 20959  
 Gene No. 43763  
 Start 13161  
 Name OJ991217\_05.0131.C10.o5.gp  
 Start 13805  
 GI 2442756  
 Exons 13805..13848, 14335..14536

Seq. ID OJ991217\_05.0131.C10  
 Strand -  
 End 14536  
 Method AAT/GAP  
 End 14536  
 Score 443

Seq. No. 20959  
 Gene No. 43764  
 Start 29014  
 Name OJ991217\_05.0131.C10.o2.ts  
 Start 29014  
 GI none  
 Exons 29014..29142, 29028..29141, 29239..29328, 29253..29327, 29374..29454, 29557..29631

Seq. ID OJ991217\_05.0131.C10  
 Strand -  
 End 29631  
 Method TBLASTX:Soybean  
 End 29631  
 Score 118

Seq. No. 20960  
 Gene No. 43765  
 Start 1  
 Name OJ991217\_05.0131.C11.o1.np  
 Start 1  
 GI 6006882  
 Exons 1..20, 553..1403, 1883..1944  
 GI Descrip. (AC008153) unknown protein [Arabidopsis thaliana]

Seq. ID OJ991217\_05.0131.C11  
 Strand +  
 End 1944  
 Method AAT/NAP  
 End 1944  
 Score 811

Seq. No. 20960  
 Gene No. 43765  
 Start 1  
 Name OJ991217\_05.0131.C11.o1.gs  
 Start 589  
 GI none  
 Exons 589..1233, 1247..1474

Seq. ID OJ991217\_05.0131.C11  
 Strand +  
 End 1944  
 Method GENSCAN  
 End 1474  
 Score .49

Seq. No. 20960  
 Gene No. 43766  
 Start 1973  
 Name OJ991217\_05.0131.C11.o1.gp  
 Start 1973  
 GI 68204\_1.R1084  
 Exons 1973..2384  
 GI Descrip. '2435511 1.0e-48 (AF024504) contains similarity to prolyl 4-hydroxylase alpha subunit [Arabidopsis thaliana]'

Seq. ID OJ991217\_05.0131.C11  
 Strand +  
 End 2384  
 Method AAT/GAP  
 End 2384  
 Score 720

Seq. No.	20960	Seq. ID	OJ991217_05.0131.C11
Gene No.	43767	Strand	-
Start	1779	End	5837
Name	OJ991217_05.0131.C11.o1.ts	Method	TBLASTX:Soybean
Start	541	End	1402
GI	none	Score	37
Exons	541..567, 577..759, 838..1224, 948..1055, 1149..1223, 1253..1402, 1273..1401		

Seq. No.	20960	Seq. ID	OJ991217_05.0131.C11
Gene No.	43767	Strand	-
Start	1779	End	5837
Name	OJ991217_05.0131.C11.o4.tm	Method	TBLASTX:Maize
Start	650	End	939
GI	none	Score	56
Exons	650..685, 670..768, 670..687, 678..761, 838..939, 840..938		

Seq. No.	20960	Seq. ID	OJ991217_05.0131.C11
Gene No.	43767	Strand	-
Start	1779	End	5837
Name	OJ991217_05.0131.C11.o2.tm	Method	TBLASTX:Maize
Start	939	End	1315
GI	none	Score	445
Exons	939..1226, 940..1227, 1171..1314, 1172..1315		

Seq. No.	20960	Seq. ID	OJ991217_05.0131.C11
Gene No.	43767	Strand	-
Start	1779	End	5837
Name	OJ991217_05.0131.C11.o1.tc	Method	TBLASTX:Cress
Start	1015	End	1402
GI	none	Score	280
Exons	1015..1266, 1143..1214, 1151..1276, 1276..1401, 1277..1402		

Seq. No.	20960	Seq. ID	OJ991217_05.0131.C11
Gene No.	43767	Strand	-
Start	1779	End	5837
Name	OJ991217_05.0131.C11.o1.tm	Method	TBLASTX:Maize
Start	1324	End	2648
GI	none	Score	43
Exons	1324..1353, 1328..1357, 1351..1431, 1352..1435, 2263..2598, 2264..2647, 2268..2648		

Seq. No.	20960	Seq. ID	OJ991217_05.0131.C11
Gene No.	43767	Strand	-
Start	1779	End	5837
Name	OJ991217_05.0131.C11.o2.gs	Method	GENSCAN
Start	1779	End	5837
GI	none	Score	.88
Exons	1779..1821, 2273..2579, 2789..2849, 2930..3105, 3199..3256, 5329..5433, 5517..5574, 5680..5837		

Seq. No.	20960	Seq. ID	OJ991217_05.0131.C11
Gene No.	43767	Strand	-
Start	1779	End	5837
Name	OJ991217_05.0131.C11.o3.ts	Method	TBLASTX:Soybean
Start	2269	End	2585

GI	none	Score	117
Exons	2269..2400, 2279..2404, 2282..2401, 2393..2581, 2419..2583, 2454..2585		

Seq. No.	20960	Seq. ID	OJ991217_05.0131.C11
Gene No.	43767	Strand	-
Start	1779	End	5837
Name	OJ991217_05.0131.C11.o2.np	Method	AAT/NAP
Start	2278	End	5816
GI	6437556	Score	696
Exons	2278..2579, 2923..3105, 3199..3256, 5329..5433, 5517..5574, 5680..5816		

GI Descrip. (AC011623) unknown protein [Arabidopsis thaliana]

Seq. No.	20960	Seq. ID	OJ991217_05.0131.C11
Gene No.	43767	Strand	-
Start	1779	End	5837
Name	OJ991217_05.0131.C11.o2.tc	Method	TBLASTX:Cress
Start	2278	End	5582
GI	none	Score	95
Exons	2278..2400, 2285..2395, 2288..2404, 2423..2581, 2434..2586, 2930..3106, 2931..3107, 3203..3259, 3204..3257, 5335..5433, 5348..5434, 5517..5582, 5533..5577		

Seq. No.	20960	Seq. ID	OJ991217_05.0131.C11
Gene No.	43767	Strand	-
Start	1779	End	5837
Name	OJ991217_05.0131.C11.o2.gp	Method	AAT/GAP
Start	2422	End	5727
GI	3762086	Score	1183
Exons	2422..2579, 2789..2849, 2930..3105, 3199..3256, 5329..5433, 5517..5574, 5680..5727		

GI Descrip. 2435511 1.0e-48 (AF024504) contains similarity to prolyl 4-hydroxylase alpha subunit [Arabidopsis thaliana]

Seq. No.	20960	Seq. ID	OJ991217_05.0131.C11
Gene No.	43767	Strand	-
Start	1779	End	5837
Name	OJ991217_05.0131.C11.o3.tm	Method	TBLASTX:Maize
Start	2785	End	5720
GI	none	Score	99
Exons	2785..2850, 2789..2851, 2790..2849, 2791..2850, 2917..3102, 2930..3106, 2931..3107, 3200..3259, 3201..3260, 5327..5434, 5327..5395, 5329..5433, 5509..5583, 5512..5574, 5517..5594, 5517..5582, 5678..5716, 5679..5720, 5688..5720		

Seq. No.	20960	Seq. ID	OJ991217_05.0131.C11
Gene No.	43767	Strand	-
Start	1779	End	5837
Name	OJ991217_05.0131.C11.o2.ts	Method	TBLASTX:Soybean
Start	2805	End	5720
GI	none	Score	56
Exons	2805..2846, 2806..2847, 2918..3109, 2934..3107, 2979..3119, 3203..3259, 3204..3266, 5327..5434, 5329..5433, 5517..5576, 5688..5720		

Seq. No.	20961	Seq. ID	OJ991217_05.0131.C13
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Gene No.	43768	Strand	+
Start	269	End	2017
Name	OJ991217_05.0131.C13.o1.gs	Method	GENSCAN
Start	269	End	2017
GI	none	Score	.92
Exons	269..551, 614..876, 1001..1763, 1863..2017		
Seq. No.	20961	Seq. ID	OJ991217_05.0131.C13
Gene No.	43769	Strand	+
Start	3281	End	3549
Name	OJ991217_05.0131.C13.o2.gs	Method	GENSCAN
Start	3281	End	3549
GI	none	Score	.91
Exons	3281..3395, 3500..3549		
Seq. No.	20961	Seq. ID	OJ991217_05.0131.C13
Gene No.	43770	Strand	+
Start	7218	End	13929
Name	OJ991217_05.0131.C13.o4.gs	Method	GENSCAN
Start	7218	End	13929
GI	none	Score	.62
Exons	7218..7461, 7543..7805, 7903..8464, 9469..9617, 9931..10138, 10258..10541, 10696..11794, 12717..12847, 12926..13282, 13718..13929		
Seq. No.	20961	Seq. ID	OJ991217_05.0131.C13
Gene No.	43771	Strand	-
Start	4668	End	6840
Name	OJ991217_05.0131.C13.o3.gs	Method	GENSCAN
Start	4668	End	6840
GI	none	Score	.61
Exons	4668..5219, 5298..5419, 5495..5653, 5952..6238, 6383..6583, 6770..6840		
Seq. No.	20961	Seq. ID	OJ991217_05.0131.C13
Gene No.	43771	Strand	-
Start	4668	End	6840
Name	OJ991217_05.0131.C13.o1.tm	Method	TBLASTX:Maize
Start	4686	End	5595
GI	none	Score	124
Exons	4686..4769, 4974..5003, 5115..5186, 5178..5222, 5298..5588, 5301..5594, 5350..5595		
Seq. No.	20962	Seq. ID	OJ991217_05.0131.C14
Gene No.	43772	Strand	+
Start	6741	End	7392
Name	OJ991217_05.0131.C14.o2.gs	Method	GENSCAN
Start	6741	End	7392
GI	none	Score	.59
Exons	6741..6839, 7258..7392		
Seq. No.	20962	Seq. ID	OJ991217_05.0131.C14
Gene No.	43773	Strand	-
Start	9351	End	10100
Name	OJ991217_05.0131.C14.o3.gs	Method	GENSCAN
Start	9351	End	10100
GI	none	Score	.55

Exons 9351..9418, 10076..10100

Seq. No.	20963	Seq. ID	OJ991217_05.0131.C15
Gene No.	43774	Strand	+
Start	479	End	846
Name	OJ991217_05.0131.C15.o1.gs	Method	GENSCAN
Start	479	End	846
GI	none	Score	.44
Exons	479..846		

Seq. No.	20964	Seq. ID	OJ991217_05.0131.C16
Gene No.	43775	Strand	+
Start	3693	End	3775
Name	OJ991217_05.0131.C16.o1.np	Method	AAT/NAP
Start	3693	End	3775
GI	6630699	Score	84
Exons	3693..3775		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi 6721536 dbj BAA89566.1  (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	20964	Seq. ID	OJ991217_05.0131.C16
Gene No.	43776	Strand	+
Start	3909	End	4335
Name	OJ991217_05.0131.C16.o2.np	Method	AAT/NAP
Start	3909	End	4335
GI	6539570	Score	164
Exons	3909..4102, 4262..4335		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	20964	Seq. ID	OJ991217_05.0131.C16
Gene No.	43777	Strand	-
Start	222	End	4102
Name	OJ991217_05.0131.C16.o1.gs	Method	GENSCAN
Start	222	End	4102
GI	none	Score	.6
Exons	222..599, 765..979, 2058..2178, 3322..3401, 4057..4102		

Seq. No.	20965	Seq. ID	OJ991217_05.0131.C17
Gene No.	43778	Strand	+
Start	426	End	833
Name	OJ991217_05.0131.C17.o1.gs	Method	GENSCAN
Start	426	End	833
GI	none	Score	.79
Exons	426..833		

Seq. No.	20965	Seq. ID	OJ991217_05.0131.C17
Gene No.	43779	Strand	-
Start	1464	End	2080
Name	OJ991217_05.0131.C17.o2.gs	Method	GENSCAN
Start	1464	End	2080
GI	none	Score	.47
Exons	1464..1523, 1536..1655, 2045..2080		

Seq. No.	20965	Seq. ID	OJ991217_05.0131.C17
Gene No.	43780	Strand	-
Start	2335	End	2467

Name	OJ991217_05.0131.C17.o1.gp	Method	AAT/GAP
Start	2335	End	2467
GI	35479 1.R1084	Score	231
Exons	2335..2467		
GI Descrip.	'2982431/emb CAA18239.1  2.0e-31 (AL022224) leucine rich repeat-like protein [Arabidopsis thaliana]'		

Seq. No.	20966	Seq. ID	OJ991217_05.0131.C18
Gene No.	43781	Strand	+
Start	837	End	1850
Name	OJ991217_05.0131.C18.o1.gs	Method	GENSCAN
Start	837	End	1850
GI	none	Score	.7
Exons	837..885, 1789..1850		

Seq. No.	20966	Seq. ID	OJ991217_05.0131.C18
Gene No.	43782	Strand	-
Start	3045	End	6434
Name	OJ991217_05.0131.C18.o2.gs	Method	GENSCAN
Start	3045	End	6434
GI	none	Score	.87
Exons	3045..3125, 3277..3450, 3843..3885, 4077..4221, 4301..4409, 4690..4818, 4931..5027, 5634..5698, 6270..6434		

Seq. No.	20966	Seq. ID	OJ991217_05.0131.C18
Gene No.	43782	Strand	-
Start	3045	End	6434
Name	OJ991217_05.0131.C18.o2.tm	Method	TBLASTX:Maize
Start	3340	End	4219
GI	none	Score	169
Exons	3340..3450, 3341..3451, 3341..3451, 3843..3887, 4076..4219, 4077..4217, 4081..4218		

Seq. No.	20966	Seq. ID	OJ991217_05.0131.C18
Gene No.	43782	Strand	-
Start	3045	End	6434
Name	OJ991217_05.0131.C18.o1.np	Method	AAT/NAP
Start	4063	End	5722
GI	1176814	Score	308
Exons	4063..4221, 4301..4409, 4690..4818, 4931..5027, 5634..5722		
GI Descrip.	HYPOTHETICAL 31.3 KD PROTEIN IN AGAI-MTR INTERGENIC REGION (F286) gi 606086 gb AAA57949.1  (U18997) ORF f286 [Escherichia coli] gi 1789535 (AE000395) orf, hypothetical protein [Escherichia coli]		

Seq. No.	20966	Seq. ID	OJ991217_05.0131.C18
Gene No.	43782	Strand	-
Start	3045	End	6434
Name	OJ991217_05.0131.C18.o1.tm	Method	TBLASTX:Maize
Start	4688	End	5700
GI	none	Score	125
Exons	4688..4789, 4690..4818, 4691..4777, 4855..4902, 4910..5029, 4925..5029, 4926..5033, 4932..5033, 5633..5698, 5634..5699, 5635..5700		

Seq. No.	20967	Seq. ID	OJ991217_05.0131.C19
Gene No.	43783	Strand	+

Start	1	End	679
Name	OJ991217_05.0131.C19.o1.np	Method	AAT/NAP
Start	1	End	679
GI	1360613	Score	152
Exons	1..32, 192..417, 662..679		
GI Descrip.	(X97304) ORF V [Strawberry vein banding virus]		

Seq. No.	20967	Seq. ID	OJ991217_05.0131.C19
Gene No.	43783	Strand	+
Start	1	End	679
Name	OJ991217_05.0131.C19.o2.np	Method	AAT/NAP
Start	437	End	679
GI	6006374	Score	177
Exons	437..679		
GI Descrip.	(AP000559) Similar to Rice tungro bacilliform virus; reverse transcriptase (D10774) [Oryza sativa]		

Seq. No.	20968	Seq. ID	OJ991217_05.0131.C20
Gene No.	43784	Strand	+
Start	1	End	3542
Name	OJ991217_05.0131.C20.o1.np	Method	AAT/NAP
Start	1	End	1422
GI	6006374	Score	2027
Exons	1..1422		
GI Descrip.	(AP000559) Similar to Rice tungro bacilliform virus; reverse transcriptase (D10774) [Oryza sativa]		

Seq. No.	20968	Seq. ID	OJ991217_05.0131.C20
Gene No.	43784	Strand	+
Start	1	End	3542
Name	OJ991217_05.0131.C20.o2.np	Method	AAT/NAP
Start	1	End	3363
GI	6006374	Score	2024
Exons	1..1432, 2203..2239, 3320..3363		
GI Descrip.	(AP000559) Similar to Rice tungro bacilliform virus; reverse transcriptase (D10774) [Oryza sativa]		

Seq. No.	20968	Seq. ID	OJ991217_05.0131.C20
Gene No.	43784	Strand	+
Start	1	End	3542
Name	OJ991217_05.0131.C20.o1.gs	Method	GENSCAN
Start	163	End	3476
GI	none	Score	.57
Exons	163..1315, 1867..2436, 2701..3476		

Seq. No.	20968	Seq. ID	OJ991217_05.0131.C20
Gene No.	43784	Strand	+
Start	1	End	3542
Name	OJ991217_05.0131.C20.o3.np	Method	AAT/NAP
Start	2232	End	3542
GI	6006375	Score	2057
Exons	2232..3542		
GI Descrip.	(AP000559) Similar to ORF3 protein - rice tungro bacilliform virus &RTUORFS_2 (C40785) [Oryza sativa]		

Seq. No.	20968	Seq. ID	OJ991217_05.0131.C20
Gene No.	43784	Strand	+

Start	1	End	3542
Name	OJ991217_05.0131.C20.o1.tw	Method	TBLASTX:Wheat
Start	2334	End	2618
GI	none	Score	205
Exons	2334..2618		

Seq. No.	20969	Seq. ID	OJ991217_05.0131.C21
Gene No.	43785	Strand	+
Start	1	End	89
Name	OJ991217_05.0131.C21.o1.np	Method	AAT/NAP
Start	1	End	89
GI	6006375	Score	123
Exons	1..89		
GI Descrip.	(AP000559) Similar to ORF3 protein - rice tungro bacilliform virus &RTUORFS_2 (C40785) [Oryza sativa]		

Seq. No.	20969	Seq. ID	OJ991217_05.0131.C21
Gene No.	43786	Strand	+
Start	1662	End	1933
Name	OJ991217_05.0131.C21.o3.np	Method	AAT/NAP
Start	1662	End	1933
GI	6006374	Score	383
Exons	1662..1933		
GI Descrip.	(AP000559) Similar to Rice tungro bacilliform virus; reverse transcriptase (D10774) [Oryza sativa]		

Seq. No.	20969	Seq. ID	OJ991217_05.0131.C21
Gene No.	43787	Strand	-
Start	448	End	986
Name	OJ991217_05.0131.C21.o1.gp	Method	AAT/GAP
Start	448	End	975
GI	21466_1.R1084	Score	961
Exons	448..975		
GI Descrip.	'6006355/dbj AP000559.1 AP000559 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0493C11'		

Seq. No.	20969	Seq. ID	OJ991217_05.0131.C21
Gene No.	43787	Strand	-
Start	448	End	986
Name	OJ991217_05.0131.C21.o1.gs	Method	GENSCAN
Start	743	End	986
GI	none	Score	.76
Exons	743..877, 905..986		

Seq. No.	20970	Seq. ID	OJ991217_05.0131.C22
Gene No.	43788	Strand	+
Start	1	End	2950
Name	OJ991217_05.0131.C22.o1.np	Method	AAT/NAP
Start	1	End	1933
GI	6006374	Score	3174
Exons	1..1933		
GI Descrip.	(AP000559) Similar to Rice tungro bacilliform virus; reverse transcriptase (D10774) [Oryza sativa]		

Seq. No.	20970	Seq. ID	OJ991217_05.0131.C22
Gene No.	43788	Strand	+
Start	1	End	2950



Name	OJ991217_05.0131.C22.o1.gs	Method	GENSCAN
Start	153	End	2950
GI	none	Score	.45
Exons	153..371, 1014..1930, 2852..2950		

  

Seq. No.	20971	Seq. ID	OJ991217_05.0131.C23
Gene No.	43789	Strand	-
Start	1	End	3376
Name	OJ991217_05.0131.C23.o1.np	Method	AAT/NAP
Start	1	End	3376
GI	5441880	Score	1737
Exons	1..27, 604..711, 1313..1633, 1892..1923, 2365..3376		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	20971	Seq. ID	OJ991217_05.0131.C23
Gene No.	43789	Strand	-
Start	1	End	3376
Name	OJ991217_05.0131.C23.o1.tw	Method	TBLASTX:Wheat
Start	2138	End	2515
GI	none	Score	65
Exons	2138..2311, 2149..2289, 2244..2312, 2336..2512, 2361..2513, 2366..2515		

Seq. No.	20971	Seq. ID	OJ991217_05.0131.C23
Gene No.	43789	Strand	-
Start	1	End	3376
Name	OJ991217_05.0131.C23.o1.tm	Method	TBLASTX:Maize
Start	2213	End	2809
GI	none	Score	181
Exons	2213..2284, 2331..2630, 2342..2809, 2682..2804		

Seq. No.	20972	Seq. ID	OJ991217_05.0131.C24
Gene No.	43790	Strand	+
Start	306	End	6001
Name	OJ991217_05.0131.C24.o1.gs	Method	GENSCAN
Start	306	End	6001
GI	none	Score	.77
Exons	306..463, 1405..2161, 2509..2595, 2680..2763, 2845..2931, 3019..3105, 3584..3637, 3718..3809, 3898..4012, 4094..4244, 4380..4521, 5265..5385, 5849..6001		

Seq. No.	20972	Seq. ID	OJ991217_05.0131.C24
Gene No.	43790	Strand	+
Start	306	End	6001
Name	OJ991217_05.0131.C24.o1.np	Method	AAT/NAP
Start	306	End	4525
GI	6735375	Score	1943
Exons	306..463, 1405..2161, 2509..2595, 2680..2763, 2845..2931, 3019..3111, 3584..3637, 3718..3809, 3898..4012, 4094..4244, 4380..4525		
GI Descrip.	(AL137082) putative protein [Arabidopsis thaliana]		

Seq. No.	20972	Seq. ID	OJ991217_05.0131.C24
Gene No.	43790	Strand	+
Start	306	End	6001

Name OJ991217\_05.0131.C24.o1.gp  
 Start 4438  
 GI none  
 Exons 4438..4533, 4904..5228

Method AAT/GAP  
 End 5228  
 Score 805

Seq. No. 20972  
 Gene No. 43791  
 Start 8743  
 Name OJ991217\_05.0131.C24.o1.tc  
 Start 306  
 GI none  
 Exons 306..464, 306..488, 314..529, 1406..1582, 1408..1578

Seq. ID OJ991217\_05.0131.C24  
 Strand +  
 End 11607  
 Method TBLASTX:Cress  
 End 1582  
 Score 225

Seq. No. 20972  
 Gene No. 43791  
 Start 8743  
 Name OJ991217\_05.0131.C24.o3.tm  
 Start 320  
 GI none  
 Exons 320..403, 321..404, 390..464, 405..488, 1405..1578, 1406..1582

Seq. ID OJ991217\_05.0131.C24  
 Strand +  
 End 11607  
 Method TBLASTX:Maize  
 End 1582  
 Score 129

Seq. No. 20972  
 Gene No. 43791  
 Start 8743  
 Name OJ991217\_05.0131.C24.o1.ts  
 Start 390  
 GI none  
 Exons 390..473, 1381..1686, 1406..1582, 1711..1959, 1712..1960, 1984..2163, 1991..2164, 2506..2601, 2526..2600, 2677..2766, 2679..2765, 2842..2868, 2844..2870

Seq. ID OJ991217\_05.0131.C24  
 Strand +  
 End 11607  
 Method TBLASTX:Soybean  
 End 2870  
 Score 104

Seq. No. 20972  
 Gene No. 43791  
 Start 8743  
 Name OJ991217\_05.0131.C24.o1.tm  
 Start 1678  
 GI none  
 Exons 1678..1968, 1681..1911, 1685..1954, 1713..1961, 1958..1996, 1991..2149, 1993..2148, 1994..2149, 1995..2150

Seq. ID OJ991217\_05.0131.C24  
 Strand +  
 End 11607  
 Method TBLASTX:Maize  
 End 2150  
 Score 188

Seq. No. 20972  
 Gene No. 43791  
 Start 8743  
 Name OJ991217\_05.0131.C24.o2.tc  
 Start 2075  
 GI none  
 Exons 2075..2164, 2078..2164, 2506..2622, 2508..2597, 2677..2766, 2679..2765, 2842..2931, 2842..2931, 2844..2933, 2844..2933, 3010..3105, 3013..3105, 3015..3107, 3018..3119

Seq. ID OJ991217\_05.0131.C24  
 Strand +  
 End 11607  
 Method TBLASTX:Cress  
 End 3119  
 Score 136

Seq. No. 20972  
 Gene No. 43791  
 Start 8743  
 Name OJ991217\_05.0131.C24.o2.tm  
 Start 2506  
 GI none  
 Exons 2506..2601, 2507..2602, 2508..2603, 2676..2765, 2677..2766,

Seq. ID OJ991217\_05.0131.C24  
 Strand +  
 End 11607  
 Method TBLASTX:Maize  
 End 4015  
 Score 168

2677..2763, 2679..2765, 2842..2931, 2842..2928, 2844..2933,  
3010..3105, 3013..3105, 3018..3116, 3027..3116, 3583..3639,  
3584..3640, 3585..3650, 3702..3809, 3703..3807, 3716..3817,  
3891..4013, 3895..4014, 3896..4015

Seq. No.	20972	Seq. ID	OJ991217_05.0131.C24
Gene No.	43791	Strand	+
Start	8743	End	11607
Name	OJ991217_05.0131.C24.o2.ts	Method	TBLASTX:Soybean
Start	2872	End	4504
GI	none	Score	74
Exons	2872..2931, 3010..3105, 3013..3105, 3017..3115, 3017..3115, 3583..3639, 3583..3639, 3584..3640, 3584..3649, 3702..3800, 3702..3809, 3703..3807, 3895..4014, 3896..4015, 4093..4134, 4094..4156, 4129..4242, 4130..4255, 4145..4255, 4156..4257, 4158..4256, 4362..4475, 4377..4475, 4433..4504, 4441..4500		

Seq. No.	20972	Seq. ID	OJ991217_05.0131.C24
Gene No.	43791	Strand	+
Start	8743	End	11607
Name	OJ991217_05.0131.C24.o4.tm	Method	TBLASTX:Maize
Start	4077	End	5149
GI	none	Score	109
Exons	4077..4160, 4093..4161, 4094..4159, 4154..4255, 4155..4244, 4157..4255, 4377..4526, 4433..4531, 4441..4533, 5093..5149		

Seq. No.	20972	Seq. ID	OJ991217_05.0131.C24
Gene No.	43791	Strand	+
Start	8743	End	11607
Name	OJ991217_05.0131.C24.o2.gs	Method	GENSCAN
Start	8743	End	11527
GI	none	Score	.66
Exons	8743..8945, 10790..10871, 10971..11081, 11431..11527		

Seq. No.	20972	Seq. ID	OJ991217_05.0131.C24
Gene No.	43791	Strand	+
Start	8743	End	11607
Name	OJ991217_05.0131.C24.o2.np	Method	AAT/NAP
Start	8797	End	11607
GI	5080816	Score	601
Exons	8797..8952, 10269..10334, 10601..10662, 10790..10871, 10971..11081, 11232..11309, 11431..11607		
GI Descrip.	(AC007258) Putative ATPase [Arabidopsis thaliana]		

Seq. No.	20973	Seq. ID	OJ991217_05.0131.C25
Gene No.	43792	Strand	+
Start	1	End	1218
Name	OJ991217_05.0131.C25.o1.np	Method	AAT/NAP
Start	1	End	1218
GI	5080816	Score	204
Exons	1..40, 898..1004, 1095..1218		
GI Descrip.	(AC007258) Putative ATPase [Arabidopsis thaliana]		

Seq. No.	20973	Seq. ID	OJ991217_05.0131.C25
Gene No.	43793	Strand	-
Start	920	End	967
Name	OJ991217_05.0131.C25.o1.gs	Method	GENSCAN

Start	920	End	967
GI	none	Score	.74
Exons	920..967		

  

Seq. No.	20974	Seq. ID	OJ991217_05.0131.C26
Gene No.	43794	Strand	-
Start	1	End	4099
Name	OJ991217_05.0131.C26.o1.gp	Method	AAT/GAP
Start	1	End	1171
GI	342_1.R1084	Score	1859
Exons	1..1171		
GI Descrip.	'4574406/gb AAD24042.1  0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	20974	Seq. ID	OJ991217_05.0131.C26
Gene No.	43794	Strand	-
Start	1	End	4099
Name	OJ991217_05.0131.C26.o1.tw	Method	TBLASTX:Wheat
Start	1	End	255
GI	none	Score	250
Exons	1..255, 1..252, 3..254		

Seq. No.	20974	Seq. ID	OJ991217_05.0131.C26
Gene No.	43794	Strand	-
Start	1	End	4099
Name	OJ991217_05.0131.C26.o2.np	Method	AAT/NAP
Start	1	End	2742
GI	2500036	Score	70
Exons	1..23, 2348..2428, 2548..2742		
GI Descrip.	DIHYDROOROTASE PRECURSOR (DHOASE) gi 2121273 (AF000146) dihydroorotase [Arabidopsis thaliana] gi 3292818 emb CAA19808.1  (AL031018) dihydroorotase [Arabidopsis thaliana]		

Seq. No.	20974	Seq. ID	OJ991217_05.0131.C26
Gene No.	43794	Strand	-
Start	1	End	4099
Name	OJ991217_05.0131.C26.o1.np	Method	AAT/NAP
Start	1	End	2453
GI	4680203	Score	1443
Exons	1..1175, 2415..2453		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	20974	Seq. ID	OJ991217_05.0131.C26
Gene No.	43794	Strand	-
Start	1	End	4099
Name	OJ991217_05.0131.C26.o1.tm	Method	TBLASTX:Maize
Start	3	End	383
GI	none	Score	142
Exons	3..278, 4..255, 294..383		

Seq. No.	20974	Seq. ID	OJ991217_05.0131.C26
Gene No.	43794	Strand	-
Start	1	End	4099
Name	OJ991217_05.0131.C26.o1.gs	Method	GENSCAN
Start	11	End	4099
GI	none	Score	.43
Exons	11..1175, 2158..2369, 2531..2649, 2787..2864, 3777..4099		

Seq. No.	20974	Seq. ID	OJ991217_05.0131.C26
Gene No.	43794	Strand	-
Start	1	End	4099
Name	OJ991217_05.0131.C26.o1.tc	Method	TBLASTX:Cress
Start	42	End	390
GI	none	Score	88
Exons	42..383, 61..198, 238..390		

Seq. No.	20974	Seq. ID	OJ991217_05.0131.C26
Gene No.	43794	Strand	-
Start	1	End	4099
Name	OJ991217_05.0131.C26.o2.gp	Method	AAT/GAP
Start	102	End	1623
GI	2310235	Score	296
Exons	102..159, 1036..1175, 1586..1623		
GI Descrip.	5852182/emb CAB55420.1  9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	20974	Seq. ID	OJ991217_05.0131.C26
Gene No.	43794	Strand	-
Start	1	End	4099
Name	OJ991217_05.0131.C26.o1.ts	Method	TBLASTX:Soybean
Start	123	End	552
GI	none	Score	125
Exons	123..419, 141..365, 414..476, 469..552, 477..551		

Seq. No.	20974	Seq. ID	OJ991217_05.0131.C26
Gene No.	43794	Strand	-
Start	1	End	4099
Name	OJ991217_05.0131.C26.o2.tw	Method	TBLASTX:Wheat
Start	468	End	824
GI	none	Score	158
Exons	468..725, 473..724, 483..734, 484..726, 717..824		

Seq. No.	20975	Seq. ID	OJ991217_05.0131.C27
Gene No.	43795	Strand	-
Start	147	End	292
Name	OJ991217_05.0131.C27.o1.gs	Method	GENSCAN
Start	147	End	292
GI	none	Score	.82
Exons	147..292		

Seq. No.	20976	Seq. ID	OJ991217_05.0131.C29
Gene No.	43796	Strand	+
Start	68	End	277
Name	OJ991217_05.0131.C29.o1.gs	Method	GENSCAN
Start	68	End	277
GI	none	Score	.82
Exons	68..277		

Seq. No.	20977	Seq. ID	OJ990627_32.0103.C1
Gene No.	43797	Strand	+
Start	11	End	612
Name	OJ990627_32.0103.C1.o1.gs	Method	GENSCAN
Start	11	End	612
GI	none	Score	.5

Exons 11..309, 492..612

Seq. No. 20978  
Gene No. 43798  
Start 2831  
Name OJ990627\_32.0103.C2.o1.gs  
Start 2831  
GI none  
Exons 2831..3158

Seq. ID OJ990627\_32.0103.C2  
Strand +  
End 3158  
Method GENSCAN  
End 3158  
Score .44

Seq. No. 20979  
Gene No. 43799  
Start 48  
Name OJ990627\_32.0103.C3.o1.gs  
Start 48  
GI none  
Exons 48..548, 1200..1393, 2237..2608, 2882..2950, 3443..3502

Seq. ID OJ990627\_32.0103.C3  
Strand +  
End 3502  
Method GENSCAN  
End 3502  
Score .51

Seq. No. 20979  
Gene No. 43799  
Start 48  
Name OJ990627\_32.0103.C3.o1.np  
Start 2247  
GI 5305335  
Exons 2247..2817, 3056..3332

Seq. ID OJ990627\_32.0103.C3  
Strand +  
End 3502  
Method AAT/NAP  
End 3332  
Score 113

GI Descrip. (AF071081) proline-rich mucin homolog [Mycobacterium tuberculosis]

Seq. No. 20980  
Gene No. 43800  
Start 713  
Name OJ990627\_32.0103.C4.o1.gp  
Start 713  
GI none  
Exons 713..913, 1066..1258

Seq. ID OJ990627\_32.0103.C4  
Strand +  
End 1258  
Method AAT/GAP  
End 1258  
Score 677

Seq. No. 20980  
Gene No. 43800  
Start 713  
Name OJ990627\_32.0103.C4.o1.gs  
Start 756  
GI none  
Exons 756..890

Seq. ID OJ990627\_32.0103.C4  
Strand +  
End 1258  
Method GENSCAN  
End 890  
Score .92

Seq. No. 20981  
Gene No. 43801  
Start 1  
Name OJ990627\_32.0103.C5.o1.gp  
Start 1  
GI none  
Exons 1..304

Seq. ID OJ990627\_32.0103.C5  
Strand -  
End 304  
Method AAT/GAP  
End 304  
Score 549

Seq. No. 20981  
Gene No. 43802  
Start 2478  
Name OJ990627\_32.0103.C5.o2.gs  
Start 2478

Seq. ID OJ990627\_32.0103.C5  
Strand -  
End 3107  
Method GENSCAN  
End 3107

GI	none	Score	.82
Exons	2478..3107		
Seq. No.	20982	Seq. ID	OJ990627_32.0103.C6
Gene No.	43803	Strand	+
Start	3112	End	6229
Name	OJ990627_32.0103.C6.o2.gs	Method	GENSCAN
Start	3112	End	6229
GI	none	Score	.58
Exons	3112..3191, 4039..4092, 4450..4594, 4673..5512, 5594..5692, 5801..6229		
Seq. No.	20982	Seq. ID	OJ990627_32.0103.C6
Gene No.	43804	Strand	-
Start	14	End	424
Name	OJ990627_32.0103.C6.o1.gs	Method	GENSCAN
Start	14	End	424
GI	none	Score	.94
Exons	14..424		
Seq. No.	20982	Seq. ID	OJ990627_32.0103.C6
Gene No.	43805	Strand	-
Start	6696	End	7626
Name	OJ990627_32.0103.C6.o3.gs	Method	GENSCAN
Start	6696	End	7562
GI	none	Score	.76
Exons	6696..7200, 7216..7562		
Seq. No.	20982	Seq. ID	OJ990627_32.0103.C6
Gene No.	43805	Strand	-
Start	6696	End	7626
Name	OJ990627_32.0103.C6.o1.np	Method	AAT/NAP
Start	6717	End	7626
GI	4115365	Score	335
Exons	6717..7507, 7553..7626		
GI Descrip.	(AC005957) putative retroelement pol polyprotein [Arabidopsis thaliana]		
Seq. No.	20982	Seq. ID	OJ990627_32.0103.C6
Gene No.	43805	Strand	-
Start	6696	End	7626
Name	OJ990627_32.0103.C6.o1.ts	Method	TBLASTX:Soybean
Start	6723	End	6956
GI	none	Score	38
Exons	6723..6956, 6724..6744, 6784..6954, 6789..6956		
Seq. No.	20982	Seq. ID	OJ990627_32.0103.C6
Gene No.	43805	Strand	-
Start	6696	End	7626
Name	OJ990627_32.0103.C6.o1.tw	Method	TBLASTX:Wheat
Start	6732	End	7139
GI	none	Score	116
Exons	6732..7139, 6766..7131		
Seq. No.	20982	Seq. ID	OJ990627_32.0103.C6
Gene No.	43805	Strand	-
Start	6696	End	7626

Name	OJ990627_32.0103.C6.o2.ts	Method	TBLASTX:Soybean
Start	7387	End	7610
GI	none	Score	95
Exons	7387..7593, 7389..7610		
Seq. No.	20983	Seq. ID	OJ990627_32.0103.C7
Gene No.	43806	Strand	+
Start	1535	End	2005
Name	OJ990627_32.0103.C7.o2.gs	Method	GENSCAN
Start	1535	End	2005
GI	none	Score	.92
Exons	1535..2005		
Seq. No.	20983	Seq. ID	OJ990627_32.0103.C7
Gene No.	43806	Strand	+
Start	1535	End	2005
Name	OJ990627_32.0103.C7.o1.np	Method	AAT/NAP
Start	1568	End	2002
GI	4680185	Score	637
Exons	1568..2002		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		
Seq. No.	20983	Seq. ID	OJ990627_32.0103.C7
Gene No.	43807	Strand	-
Start	239	End	620
Name	OJ990627_32.0103.C7.o1.gp	Method	AAT/GAP
Start	239	End	620
GI	uC-osflcyp033a04b1	Score	643
Exons	239..620		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		
Seq. No.	20983	Seq. ID	OJ990627_32.0103.C7
Gene No.	43808	Strand	-
Start	2950	End	3448
Name	OJ990627_32.0103.C7.o2.np	Method	AAT/NAP
Start	2656	End	3448
GI	4378066	Score	244
Exons	2656..3448		
GI Descrip.	(AF098806) polyprotein [Sorghum bicolor] gi 4680208 gb AAD27571.1 AF114171_12 (AF114171) polyprotein [Sorghum bicolor]		
Seq. No.	20983	Seq. ID	OJ990627_32.0103.C7
Gene No.	43808	Strand	-
Start	2950	End	3448
Name	OJ990627_32.0103.C7.o3.gs	Method	GENSCAN
Start	2950	End	3372
GI	none	Score	1
Exons	2950..3372		
Seq. No.	20983	Seq. ID	OJ990627_32.0103.C7
Gene No.	43808	Strand	-
Start	2950	End	3448
Name	OJ990627_32.0103.C7.o1.ts	Method	TBLASTX:Soybean
Start	3208	End	3448
GI	none	Score	74



Exons 3208..3447, 3305..3448

Seq. No.	20984	Seq. ID	OJ990627_32.0103.C8
Gene No.	43809	Strand	-
Start	1	End	734
Name	OJ990627_32.0103.C8.o1.np	Method	AAT/NAP
Start	1	End	734
GI	4263831	Score	444
Exons	1..734		
GI Descrip.	(AC006067). putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	20984	Seq. ID	OJ990627_32.0103.C8
Gene No.	43809	Strand	-
Start	1	End	734
Name	OJ990627_32.0103.C8.o1.ts	Method	TBLASTX:Soybean
Start	6	End	419
GI	none	Score	56
Exons	6..137, 13..90, 138..419, 289..381		

Seq. No.	20984	Seq. ID	OJ990627_32.0103.C8
Gene No.	43809	Strand	-
Start	1	End	734
Name	OJ990627_32.0103.C8.o2.tw	Method	TBLASTX:Wheat
Start	36	End	417
GI	none	Score	64
Exons	36..137, 99..416, 244..417		

Seq. No.	20984	Seq. ID	OJ990627_32.0103.C8
Gene No.	43809	Strand	-
Start	1	End	734
Name	OJ990627_32.0103.C8.o1.tm	Method	TBLASTX:Maize
Start	105	End	566
GI	none	Score	193
Exons	105..566, 289..564		

Seq. No.	20984	Seq. ID	OJ990627_32.0103.C8
Gene No.	43809	Strand	-
Start	1	End	734
Name	OJ990627_32.0103.C8.o1.gs	Method	GENSCAN
Start	207	End	713
GI	none	Score	.97
Exons	207..713		

Seq. No.	20984	Seq. ID	OJ990627_32.0103.C8
Gene No.	43809	Strand	-
Start	1	End	734
Name	OJ990627_32.0103.C8.o1.tw	Method	TBLASTX:Wheat
Start	435	End	732
GI	none	Score	211
Exons	435..731, 436..732		

Seq. No.	20984	Seq. ID	OJ990627_32.0103.C8
Gene No.	43809	Strand	-
Start	1	End	734
Name	OJ990627_32.0103.C8.o2.tm	Method	TBLASTX:Maize
Start	567	End	732

GI	none	Score	149
Exons	567..731, 568..732		
Seq. No.	20985	Seq. ID	OJ990627_32.0103.C10
Gene No.	43810	Strand	-
Start	26	End	2577
Name	OJ990627_32.0103.C10.o1.gp	Method	AAT/GAP
Start	26	End	299
GI	uC-osflcyp142g03b1	Score	253
Exons	26..117, 221..299		
GI Descrip.	'3025188/sp P73056 YI46_SYNY3 8.0e-17 HYPOTHETICAL 11.9 KD PROTEIN SLR1846 >gi_1652154_dbj_BAA17078_ (D90903) hypothetical protein [Synechocystis sp.]'		

Seq. No.	20985	Seq. ID	OJ990627_32.0103.C10
Gene No.	43810	Strand	-
Start	26	End	2577
Name	OJ990627_32.0103.C10.o1.np	Method	AAT/NAP
Start	49	End	1091
GI	2506674	Score	146
Exons	49..117, 221..302, 898..1091		
GI Descrip.	12.9 KD PROTEIN IN LHR-SODB INTERGENIC REGION gi 1742727 dbj BAA15420  (D90809) ORF_ID:o317#10; similar to [SwissProt Accession Number P37010] [Escherichia coli] gi 1787943 (AE000260) orf, hypothetical protein [Escherichia coli]		

Seq. No.	20985	Seq. ID	OJ990627_32.0103.C10
Gene No.	43810	Strand	-
Start	26	End	2577
Name	OJ990627_32.0103.C10.o2.gp	Method	AAT/GAP
Start	799	End	874
GI	uC-osflcyp142g03b1	Score	115
Exons	799..874		
GI Descrip.	'3025188/sp P73056 YI46_SYNY3 8.0e-17 HYPOTHETICAL 11.9 KD PROTEIN SLR1846 >gi_1652154_dbj_BAA17078_ (D90903) hypothetical protein [Synechocystis sp.]'		

Seq. No.	20985	Seq. ID	OJ990627_32.0103.C10
Gene No.	43810	Strand	-
Start	26	End	2577
Name	OJ990627_32.0103.C10.o3.gp	Method	AAT/GAP
Start	974	End	2577
GI	none	Score	749
Exons	974..1061, 1195..1371, 2270..2345, 2463..2577		

Seq. No.	20985	Seq. ID	OJ990627_32.0103.C10
Gene No.	43811	Strand	-
Start	4242	End	4472
Name	OJ990627_32.0103.C10.o1.tm	Method	TBLASTX:Maize
Start	62	End	1374
GI	none	Score	69
Exons	62..133, 66..119, 67..120, 209..301, 209..295, 225..296, 807..872, 810..872, 960..1070, 961..1062, 963..1073, 1193..1372, 1195..1374		

Seq. No.	20985	Seq. ID	OJ990627_32.0103.C10
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Gene No. 43811 Strand -  
 Start 4242 End 4472  
 Name OJ990627\_32.0103.C10.o4.gp Method AAT/GAP  
 Start 4242 End 4472  
 GI LIB3433-048-P1-K1-G11 Score 409  
 Exons 4242..4472  
 GI Descrip. '3334490/sp|P48011|RPCX\_SCHPO 4.0e-12 DNA-DIRECTED RNA  
 POLYMERASES I, II, AND III 7.3 KD POLYPEPTIDE (ABC10-ALPHA)  
 >gi\_2529253\_dbj\_BAA22807\_ (D89634) RNA polymerase II subunit  
 Rpb12 [Schizosaccharomyces pombe] >gi\_2625015\_(AF027819) RNA  
 polymerases I, II and III subunit Rpl0 [Schizosaccharomyces  
 pombe] >gi\_5689985\_emb\_CAB52030.1\_ (AL109731) DNA-directed RNA  
 polymerases i, ii'

Seq. No. 20986 Seq. ID OJ990627\_32.0103.C11  
 Gene No. 43812 Strand -  
 Start 1 End 2707  
 Name OJ990627\_32.0103.C11.o2.np Method AAT/NAP  
 Start 1 End 2707  
 GI 134920 Score 101  
 Exons 1..40, 1332..1470, 2457..2528, 2582..2707  
 GI Descrip. SULFATED SURFACE GLYCOPROTEIN 185 (SSG 185) gi|99441|pir||A33647  
 sulfated surface glycoprotein 185 - Volvox carteri  
 gi|1405821|emb|CAA35953| (X51616) SULFATED SURFACE GLYCOPROTEIN  
 185 [Volvox carteri]

Seq. No. 20986 Seq. ID OJ990627\_32.0103.C11  
 Gene No. 43812 Strand -  
 Start 1 End 2707  
 Name OJ990627\_32.0103.C11.o1.np Method AAT/NAP  
 Start 774 End 1380  
 GI 5596645 Score 106  
 Exons 774..886, 1313..1380  
 GI Descrip. (Z82266) similar to RNA polymerases I, II and III shared  
 polypeptide (approx 7kd) [Caenorhabditis elegans]

Seq. No. 20986 Seq. ID OJ990627\_32.0103.C11  
 Gene No. 43812 Strand -  
 Start 1 End 2707  
 Name OJ990627\_32.0103.C11.o1.gs Method GENSCAN  
 Start 777 End 2578  
 GI none Score .74  
 Exons 777..886, 1313..1485, 1999..2090, 2311..2403, 2405..2578

Seq. No. 20986 Seq. ID OJ990627\_32.0103.C11  
 Gene No. 43812 Strand -  
 Start 1 End 2707  
 Name OJ990627\_32.0103.C11.o1.gp Method AAT/GAP  
 Start 790 End 1483  
 GI 17316\_1.R1084 Score 455  
 Exons 790..886, 1313..1483  
 GI Descrip. '5596645/emb|CAB51465.1| 9.0e-12 (Z82266) similar to RNA  
 polymerases I, II and III shared polypeptide (approx 7kd)  
 [Caenorhabditis elegans]'

Seq. No. 20987 Seq. ID OJ990627\_32.0103.C12  
 Gene No. 43813 Strand +

Start	5461	End	11469
Name	OJ990627_32.0103.C12.o2.gs	Method	GENSCAN
Start	5461	End	11469
GI	none	Score	.47
Exons	5461..5463, 5528..5837, 8631..8741, 10212..10352, 10458..10594, 11335..11469		

Seq. No.	20987	Seq. ID	OJ990627_32.0103.C12
Gene No.	43814	Strand	+
Start	15517	End	16920
Name	OJ990627_32.0103.C12.o5.gs	Method	GENSCAN
Start	15517	End	16920
GI	none	Score	.6
Exons	15517..15624, 16007..16146, 16460..16566, 16772..16920		

Seq. No.	20987	Seq. ID	OJ990627_32.0103.C12
Gene No.	43815	Strand	-
Start	986	End	2461
Name	OJ990627_32.0103.C12.o1.gp	Method	AAT/GAP
Start	986	End	2461
GI	none	Score	1159
Exons	986..1394, 1692..1752, 2300..2461		

Seq. No.	20987	Seq. ID	OJ990627_32.0103.C12
Gene No.	43816	Strand	-
Start	2757	End	5034
Name	OJ990627_32.0103.C12.o2.gp	Method	AAT/GAP
Start	2757	End	5034
GI	none	Score	1374
Exons	2757..3155, 3563..3707, 4732..4811, 4917..5034		

Seq. No.	20987	Seq. ID	OJ990627_32.0103.C12
Gene No.	43817	Strand	-
Start	6549	End	6620
Name	OJ990627_32.0103.C12.o3.gp	Method	AAT/GAP
Start	6549	End	6620
GI	LIB3477-003-P1-K1-E9	Score	95
Exons	6549..6620		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	20987	Seq. ID	OJ990627_32.0103.C12
Gene No.	43818	Strand	-
Start	13086	End	13394
Name	OJ990627_32.0103.C12.o3.gs	Method	GENSCAN
Start	13086	End	13394
GI	none	Score	.92
Exons	13086..13394		

Seq. No.	20987	Seq. ID	OJ990627_32.0103.C12
Gene No.	43819	Strand	-
Start	14886	End	15210
Name	OJ990627_32.0103.C12.o4.gs	Method	GENSCAN
Start	14886	End	15210
GI	none	Score	.78
Exons	14886..15051, 15104..15210		

Seq. No.	20987	Seq. ID	OJ990627_32.0103.C12
Gene No.	43820	Strand	-
Start	20334	End	21832
Name	OJ990627_32.0103.C12.o4.tm	Method	TBLASTX:Maize
Start	14786	End	15070
GI	none	Score	204
Exons	14786..15070		

Seq. No.	20987	Seq. ID	OJ990627_32.0103.C12
Gene No.	43820	Strand	-
Start	20334	End	21832
Name	OJ990627_32.0103.C12.o1.np	Method	AAT/NAP
Start	20334	End	21832
GI	2443320	Score	2267
Exons	20334..21832		
GI Descrip.	(D85597) polyprotein [Oryza australiensis]		

Seq. No.	20987	Seq. ID	OJ990627_32.0103.C12
Gene No.	43820	Strand	-
Start	20334	End	21832
Name	OJ990627_32.0103.C12.o2.tw	Method	TBLASTX:Wheat
Start	20371	End	20858
GI	none	Score	307
Exons	20371..20799, 20372..20794, 20799..20852, 20799..20858		

Seq. No.	20987	Seq. ID	OJ990627_32.0103.C12
Gene No.	43820	Strand	-
Start	20334	End	21832
Name	OJ990627_32.0103.C12.o3.tm	Method	TBLASTX:Maize
Start	20371	End	20776
GI	none	Score	73
Exons	20371..20577, 20396..20563, 20599..20775, 20618..20776		

Seq. No.	20987	Seq. ID	OJ990627_32.0103.C12
Gene No.	43820	Strand	-
Start	20334	End	21832
Name	OJ990627_32.0103.C12.o2.ts	Method	TBLASTX:Soybean.
Start	20377	End	20960
GI	none	Score	105
Exons	20377..20571, 20599..20820, 20799..20960		

Seq. No.	20987	Seq. ID	OJ990627_32.0103.C12
Gene No.	43820	Strand	-
Start	20334	End	21832
Name	OJ990627_32.0103.C12.o2.tm	Method	TBLASTX:Maize
Start	20817	End	21281
GI	none	Score	66
Exons	20817..21050, 20838..21143, 21120..21281		

Seq. No.	20987	Seq. ID	OJ990627_32.0103.C12
Gene No.	43820	Strand	-
Start	20334	End	21832
Name	OJ990627_32.0103.C12.o1.tw	Method	TBLASTX:Wheat
Start	20931	End	21732
GI	none	Score	341
Exons	20931..21395, 20932..21387, 20961..21395, 21320..21721,		

21381..21728, 21381..21731, 21385..21732

Seq. No.	20987	Seq. ID	OJ990627_32.0103.C12
Gene No.	43820	Strand	-
Start	20334	End	21832
Name	OJ990627_32.0103.C12.o1.tm	Method	TBLASTX:Maize
Start	21294	End	21726
GI	none	Score	157
Exons	21294..21392, 21423..21707, 21433..21726		

Seq. No.	20987	Seq. ID	OJ990627_32.0103.C12
Gene No.	43820	Strand	-
Start	20334	End	21832
Name	OJ990627_32.0103.C12.o1.ts	Method	TBLASTX:Soybean
Start	21423	End	21812
GI	5509260	Score	105
Exons	21423..21812, 21433..21570, 21604..21807		
GI Descrip.	-		

Seq. No.	20987	Seq. ID	OJ990627_32.0103.C12
Gene No.	43820	Strand	-
Start	20334	End	21832
Name	OJ990627_32.0103.C12.o1.tc	Method	TBLASTX:Cress
Start	21507	End	21771
GI	none	Score	77
Exons	21507..21770, 21638..21769, 21640..21771		

Seq. No.	20988	Seq. ID	OJ990627_32.0103.C13
Gene No.	43821	Strand	+
Start	1	End	64
Name	OJ990627_32.0103.C13.o1.gp	Method	AAT/GAP
Start	1	End	64
GI	none	Score	109
Exons	1..64		

Seq. No.	20989	Seq. ID	OJ990627_32.0103.C14
Gene No.	43822	Strand	-
Start	1	End	637
Name	OJ990627_32.0103.C14.o1.np	Method	AAT/NAP
Start	1	End	637
GI	2498930	Score	754
Exons	1..407, 575..637		
GI Descrip.	DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi 1203794 (U18774) Sog [Drosophila melanogaster]		

Seq. No.	20989	Seq. ID	OJ990627_32.0103.C14
Gene No.	43822	Strand	-
Start	1	End	637
Name	OJ990627_32.0103.C14.o1.gs	Method	GENSCAN
Start	13	End	634
GI	none	Score	1
Exons	13..407, 575..634		

Seq. No.	20990	Seq. ID	OJ990627_32.0103.C15
Gene No.	43823	Strand	-
Start	369	End	493
Name	OJ990627_32.0103.C15.o1.gs	Method	GENSCAN

Start 369  
GI none  
Exons 369..493

End 493  
Score .61

Seq. No. 20991  
Gene No. 43824  
Start 35  
Name OJ990627\_32.0103.C16.o1.gs  
Start 35  
GI none  
Exons 35..101, 396..532

Seq. ID OJ990627\_32.0103.C16  
Strand +  
End 532  
Method GENSCAN  
End 532  
Score .81

Seq. No. 20992  
Gene No. 43825  
Start 12  
Name OJ990627\_32.0103.C17.o1.gs  
Start 12  
GI none  
Exons 12..79, 331..436

Seq. ID OJ990627\_32.0103.C17  
Strand +  
End 436  
Method GENSCAN  
End 436  
Score .79

Seq. No. 20993  
Gene No. 43826  
Start 1  
Name OJ990627\_32.0103.C18.o1.gp  
Start 1  
GI uC-osflcyp173f02b1  
Exons 1..33, 159..245, 334..368, 537..641  
GI Descrip. '5081608/gb|AAD39463.1|AF135439\_1 2.0e-22 (AF135439) formin binding protein 11 [Mus musculus]'

Seq. ID OJ990627\_32.0103.C18  
Strand +  
End 642  
Method AAT/GAP  
End 641  
Score 370

Seq. No. 20993  
Gene No. 43826  
Start 1  
Name OJ990627\_32.0103.C18.o1.gs  
Start 159  
GI none  
Exons 159..245, 334..368, 537..641

Seq. ID OJ990627\_32.0103.C18  
Strand +  
End 642  
Method GENSCAN  
End 641  
Score .83

Seq. No. 20993  
Gene No. 43826  
Start 1  
Name OJ990627\_32.0103.C18.o1.tm  
Start 177  
GI none  
Exons 177..251, 177..254, 308..379, 325..366, 334..381, 522..638, 535..642

Seq. ID OJ990627\_32.0103.C18  
Strand +  
End 642  
Method TBLASTX:Maize  
End 642  
Score 89

Seq. No. 20994  
Gene No. 43827  
Start 1353  
Name OJ990627\_32.0103.C19.o1.gs  
Start 1353  
GI none  
Exons 1353..1376, 1748..1783, 2089..2214

Seq. ID OJ990627\_32.0103.C19  
Strand +  
End 2214  
Method GENSCAN  
End 2214  
Score .55

Seq. No. 20994  
Gene No. 43828

Seq. ID OJ990627\_32.0103.C19  
Strand -

Start	2827	End	4793
Name	OJ990627_32.0103.C19.o1.np	Method	AAT/NAP
Start	2827	End	4508
GI	6539588	Score	218
Exons	2827..2896, 4202..4508		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	20994	Seq. ID	OJ990627_32.0103.C19
Gene No.	43828	Strand	-
Start	2827	End	4793
Name	OJ990627_32.0103.C19.o2.gs	Method	GENSCAN
Start	4085	End	4793
GI	none	Score	.44
Exons	4085..4114, 4260..4486, 4736..4793		

Seq. No.	20995	Seq. ID	OJ990627_32.0103.C26
Gene No.	43829	Strand	+
Start	8206	End	10843
Name	OJ990627_32.0103.C26.o1.gp	Method	AAT/GAP
Start	7628	End	7718
GI	3107009	Score	121
Exons	7628..7718		
GI Descrip.	4521194/dbj AB013613.1 AB013613 6.0e-40 Oryza sativa DNA, centromere sequence RCB11		

Seq. No.	20995	Seq. ID	OJ990627_32.0103.C26
Gene No.	43829	Strand	+
Start	8206	End	10843
Name	OJ990627_32.0103.C26.o2.gp	Method	AAT/GAP
Start	8204	End	8893
GI	83032_1.R1084	Score	964
Exons	8204..8893		
GI Descrip.	'6041757/gb AC011806.1 AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence'		

Seq. No.	20995	Seq. ID	OJ990627_32.0103.C26
Gene No.	43829	Strand	+
Start	8206	End	10843
Name	OJ990627_32.0103.C26.o2.gs	Method	GENSCAN
Start	8206	End	10843
GI	none	Score	.88
Exons	8206..8314, 10446..10843		

Seq. No.	20995	Seq. ID	OJ990627_32.0103.C26
Gene No.	43830	Strand	-
Start	1	End	13768
Name	OJ990627_32.0103.C26.o1.np	Method	AAT/NAP
Start	1	End	3164
GI	6630696	Score	2339
Exons	1..27, 1619..3164		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	20995	Seq. ID	OJ990627_32.0103.C26
Gene No.	43830	Strand	-



Start	1	End	13768
Name	OJ990627_32.0103.C26.o1.gs	Method	GENSCAN
Start	27	End	7197
GI	none	Score	.4
Exons	27..599, 703..745, 2419..2635, 2669..2721, 2811..3007, 3599..3714, 4036..4068, 4439..4621, 5950..6087, 6119..6344, 7187..7197		

Seq. No.	20995	Seq. ID	OJ990627_32.0103.C26
Gene No.	43830	Strand	-
Start	1	End	13768
Name	OJ990627_32.0103.C26.o1.tw	Method	TBLASTX:Wheat
Start	1622	End	1906
GI	none	Score	60
Exons	1622..1906, 1646..1771		

Seq. No.	20995	Seq. ID	OJ990627_32.0103.C26
Gene No.	43830	Strand	-
Start	1	End	13768
Name	OJ990627_32.0103.C26.o1.tm	Method	TBLASTX:Maize
Start	1953	End	2332
GI	none	Score	46
Exons	1953..2018, 1955..2038, 2013..2309, 2021..2332		

Seq. No.	20995	Seq. ID	OJ990627_32.0103.C26
Gene No.	43830	Strand	-
Start	1	End	13768
Name	OJ990627_32.0103.C26.o2.tm	Method	TBLASTX:Maize
Start	2815	End	3122
GI	none	Score	127
Exons	2815..3006, 2818..3009, 2872..2958, 3000..3122		

Seq. No.	20995	Seq. ID	OJ990627_32.0103.C26
Gene No.	43830	Strand	-
Start	1	End	13768
Name	OJ990627_32.0103.C26.o2.tw	Method	TBLASTX:Wheat
Start	2875	End	3269
GI	none	Score	148
Exons	2875..3006, 2894..3004, 2970..3095, 3135..3269		

Seq. No.	20995	Seq. ID	OJ990627_32.0103.C26
Gene No.	43830	Strand	-
Start	1	End	13768
Name	OJ990627_32.0103.C26.o2.np	Method	AAT/NAP
Start	6044	End	13768
GI	81624	Score	72
Exons	6044..6169, 7187..7230, 10720..10919, 13725..13768		
GI Descrip.	glycine-rich protein 2 - Arabidopsis thaliana gi 259445 bbs 117608 (S47408) glycine-rich protein, atGRP {clone atGRP-2} [Arabidopsis thaliana, C24, Peptide, 203 aa] [Arabidopsis thaliana] gi 4467155 emb CAB37524  (AL035540) glycine-rich protein 2 (GRP2) [Arabidopsis thaliana]		

Seq. No.	20995	Seq. ID	OJ990627_32.0103.C26
Gene No.	43830	Strand	-
Start	1	End	13768
Name	OJ990627_32.0103.C26.o3.gs	Method	GENSCAN

Start	11820	End	13729
GI	none	Score	.68
Exons	11820..11884, 11974..12231, 13328..13369, 13522..13729		

  

Seq. No.	20996	Seq. ID	OJ990627_32.0103.C27
Gene No.	43831	Strand	+
Start	1812	End	2541
Name	OJ990627_32.0103.C27.o2.gs	Method	GENSCAN
Start	1812	End	2541
GI	none	Score	.49
Exons	1812..2074, 2157..2283, 2305..2541		

  

Seq. No.	20996	Seq. ID	OJ990627_32.0103.C27
Gene No.	43832	Strand	+
Start	5221	End	8841
Name	OJ990627_32.0103.C27.o2.np	Method	AAT/NAP
Start	5221	End	8841
GI	3461838	Score	51
Exons	5221..5248, 8622..8841		
GI Descrip.	(AC005315) putative receptor-like protein kinase [Arabidopsis thaliana]		

  

Seq. No.	20996	Seq. ID	OJ990627_32.0103.C27
Gene No.	43833	Strand	-
Start	59	End	926
Name	OJ990627_32.0103.C27.o1.gp	Method	AAT/GAP
Start	59	End	926
GI	none	Score	1694
Exons	59..926		

  

Seq. No.	20996	Seq. ID	OJ990627_32.0103.C27
Gene No.	43833	Strand	-
Start	59	End	926
Name	OJ990627_32.0103.C27.o1.gs	Method	GENSCAN
Start	182	End	860
GI	none	Score	.5
Exons	182..860		

  

Seq. No.	20996	Seq. ID	OJ990627_32.0103.C27
Gene No.	43834	Strand	-
Start	3770	End	15109
Name	OJ990627_32.0103.C27.o6.tm	Method	TBLASTX:Maize
Start	396	End	963
GI	none	Score	61
Exons	396..500, 397..498, 669..959, 682..804, 686..958, 874..963		

  

Seq. No.	20996	Seq. ID	OJ990627_32.0103.C27
Gene No.	43834	Strand	-
Start	3770	End	15109
Name	OJ990627_32.0103.C27.o3.tw	Method	TBLASTX:Wheat
Start	2053	End	2322
GI	none	Score	66
Exons	2053..2136, 2078..2134, 2137..2199, 2179..2322, 2185..2322		

  

Seq. No.	20996	Seq. ID	OJ990627_32.0103.C27
Gene No.	43834	Strand	-
Start	3770	End	15109

Name OJ990627\_32.0103.C27.o3.gs  
 Start 3770  
 GI none  
 Exons 3770..3815, 3872..4140

Method GENSCAN  
 End 4140  
 Score .87

Seq. No. 20996  
 Gene No. 43834  
 Start 3770  
 Name OJ990627\_32.0103.C27.o2.gp  
 Start 3854  
 GI none  
 Exons 3854..4174, 4200..4277

Seq. ID OJ990627\_32.0103.C27  
 Strand -  
 End 15109  
 Method AAT/GAP  
 End 4277  
 Score 651

Seq. No. 20996  
 Gene No. 43834  
 Start 3770  
 Name OJ990627\_32.0103.C27.o1.np  
 Start 3929  
 GI 6815062  
 Exons 3929..4044, 5735..6940

Seq. ID OJ990627\_32.0103.C27  
 Strand -  
 End 15109  
 Method AAT/NAP  
 End 6940  
 Score 448

GI Descrip. (AP001080) Similar to Arabidopsis thaliana chromosome II BAC F16P2 genomic sequence;mudra like protein (AC004561) [Oryza sativa]

Seq. No. 20996  
 Gene No. 43834  
 Start 3770  
 Name OJ990627\_32.0103.C27.o3.gp  
 Start 4223  
 GI 52271\_1.R1084  
 Exons 4223..4894

Seq. ID OJ990627\_32.0103.C27  
 Strand -  
 End 15109  
 Method AAT/GAP  
 End 4894  
 Score 1299

GI Descrip. '5042437/gb|AC007789.1|AC007789 5.0e-14 Oryza sativa BAC T49B20 genomic sequence, complete sequence'

Seq. No. 20996  
 Gene No. 43834  
 Start 3770  
 Name OJ990627\_32.0103.C27.o4.gs  
 Start 4991  
 GI none  
 Exons 4991..5485, 5654..6958, 7061..7330, 7717..7784, 7951..8026, 8565..8657, 11134..11482, 13189..13305, 13578..13690, 13782..13856, 14543..14886

Seq. ID OJ990627\_32.0103.C27  
 Strand -  
 End 15109  
 Method GENSCAN  
 End 14886  
 Score .71

Seq. No. 20996  
 Gene No. 43834  
 Start 3770  
 Name OJ990627\_32.0103.C27.o1.tm  
 Start 5167  
 GI none  
 Exons 5167..5478, 5167..5439, 5265..5477

Seq. ID OJ990627\_32.0103.C27  
 Strand -  
 End 15109  
 Method TBLASTX:Maize  
 End 5478  
 Score 553

Seq. No. 20996  
 Gene No. 43834  
 Start 3770  
 Name OJ990627\_32.0103.C27.o4.tm  
 Start 5651

Seq. ID OJ990627\_32.0103.C27  
 Strand -  
 End 15109  
 Method TBLASTX:Maize  
 End 5858

GI	none	Score	177
Exons	5651..5857, 5652..5855, 5718..5858		
Seq. No.	20996	Seq. ID	OJ990627_32.0103.C27
Gene No.	43834	Strand	-
Start	3770	End	15109
Name	OJ990627_32.0103.C27.o4.gp	Method	AAT/GAP
Start	5837	End	6269
GI	4968607	Score	812
Exons	5837..6269		
Seq. No.	20996	Seq. ID	OJ990627_32.0103.C27
Gene No.	43834	Strand	-
Start	3770	End	15109
Name	OJ990627_32.0103.C27.o5.tm	Method	TBLASTX:Maize
Start	5873	End	6469
GI	none	Score	99
Exons	5873..6076, 6059..6232, 6266..6346, 6374..6469		
Seq. No.	20996	Seq. ID	OJ990627_32.0103.C27
Gene No.	43834	Strand	-
Start	3770	End	15109
Name	OJ990627_32.0103.C27.o2.tm	Method	TBLASTX:Maize
Start	6782	End	7257
GI	none	Score	246
Exons	6782..6961, 6789..6959, 6789..6962, 7057..7248, 7061..7255, 7062..7124, 7090..7257, 7182..7256		
Seq. No.	20996	Seq. ID	OJ990627_32.0103.C27
Gene No.	43834	Strand	-
Start	3770	End	15109
Name	OJ990627_32.0103.C27.o3.np	Method	AAT/NAP
Start	9396	End	11550
GI	5834248	Score	95
Exons	9396..9425, 11110..11267, 11321..11356, 11451..11550		
GI Descrip.	(AF175124) SINAH1 protein [Gossypium hirsutum]		
Seq. No.	20996	Seq. ID	OJ990627_32.0103.C27
Gene No.	43834	Strand	-
Start	3770	End	15109
Name	OJ990627_32.0103.C27.o6.gp	Method	AAT/GAP
Start	12287	End	12961
GI	2280902	Score	684
Exons	12287..12598, 12889..12961		
Seq. No.	20996	Seq. ID	OJ990627_32.0103.C27
Gene No.	43834	Strand	-
Start	3770	End	15109
Name	OJ990627_32.0103.C27.o2.tw	Method	TBLASTX:Wheat
Start	12891	End	13862
GI	none	Score	126
Exons	12891..12959, 12892..12966, 12892..12963, 12899..12967, 12899..12967, 13178..13306, 13188..13307, 13188..13307, 13189..13314, 13533..13655, 13558..13689, 13559..13690, 13577..13696, 13779..13862, 13780..13857, 13788..13859		
Seq. No.	20996	Seq. ID	OJ990627_32.0103.C27

Gene No.	43834	Strand	-
Start	3770	End	15109
Name	OJ990627_32.0103.C27.o4.np	Method	AAT/NAP
Start	13179	End	13712
GI	5734734	Score	147
Exons	13179..13305, 13578..13712		
GI Descrip.	(AC007259) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	20996	Seq. ID	OJ990627_32.0103.C27
Gene No.	43834	Strand	-
Start	3770	End	15109
Name	OJ990627_32.0103.C27.o7.tm	Method	TBLASTX:Maize
Start	13187	End	13889
GI	none	Score	110
Exons	13187..13306, 13188..13307, 13188..13307, 13189..13314, 13554..13652, 13576..13689, 13577..13690, 13577..13690, 13779..13889, 13780..13857, 13785..13859		

Seq. No.	20996	Seq. ID	OJ990627_32.0103.C27
Gene No.	43834	Strand	-
Start	3770	End	15109
Name	OJ990627_32.0103.C27.o5.np	Method	AAT/NAP
Start	14468	End	15109
GI	6069646	Score	325
Exons	14468..15109		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1  (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	20996	Seq. ID	OJ990627_32.0103.C27
Gene No.	43834	Strand	-
Start	3770	End	15109
Name	OJ990627_32.0103.C27.o3.tm	Method	TBLASTX:Maize
Start	14495	End	15037
GI	none	Score	80
Exons	14495..14686, 14708..14938, 14726..14938, 14952..15026, 14957..15037		

Seq. No.	20996	Seq. ID	OJ990627_32.0103.C27
Gene No.	43834	Strand	-
Start	3770	End	15109
Name	OJ990627_32.0103.C27.o1.tw	Method	TBLASTX:Wheat
Start	14747	End	14935
GI	none	Score	203
Exons	14747..14935		

Seq. No.	20997	Seq. ID	OJ990627_32.0103.C28
Gene No.	43835	Strand	+
Start	3996	End	4655
Name	OJ990627_32.0103.C28.o2.gp	Method	AAT/GAP
Start	3996	End	4655
GI	40485_1.R1084	Score	1153
Exons	3996..4655		
GI Descrip.	'3128209 2.0e-11 (AC004077) unknown protein [Arabidopsis thaliana]'		

Seq. No.	20997	Seq. ID	OJ990627_32.0103.C28
Gene No.	43836	Strand	+
Start	10029	End	13579
Name	OJ990627_32.0103.C28.o7.gp	Method	AAT/GAP
Start	9900	End	13114
GI	20462_2.R1084	Score	929
Exons	9900..10082, 11402..11544, 12175..12304, 13043..13114		
GI Descrip.	'3298540 6.0e-35 (AC004681) unknown protein [Arabidopsis thaliana]'		

Seq. No.	20997	Seq. ID	OJ990627_32.0103.C28
Gene No.	43836	Strand	+
Start	10029	End	13579
Name	OJ990627_32.0103.C28.o3.gs	Method	GENSCAN
Start	10029	End	13234
GI	none	Score	.97
Exons	10029..10082, 11402..11544, 12175..12304, 13043..13234		

Seq. No.	20997	Seq. ID	OJ990627_32.0103.C28
Gene No.	43836	Strand	+
Start	10029	End	13579
Name	OJ990627_32.0103.C28.o4.np	Method	AAT/NAP
Start	10035	End	13579
GI	3298540	Score	.697
Exons	10035..10082, 11402..11544, 12175..12304, 13043..13234, 13514..13579		
GI Descrip.	(AC004681) putative carboxymethylenebutenolidase [Arabidopsis thaliana]		

Seq. No.	20997	Seq. ID	OJ990627_32.0103.C28
Gene No.	43837	Strand	-
Start	1	End	8049
Name	OJ990627_32.0103.C28.o2.np	Method	AAT/NAP
Start	1	End	4018
GI	3850576	Score	50
Exons	1..54, 2830..3022, 3950..4018		
GI Descrip.	(AC005278) Strong similarity to gb U04968 nucleotide excision repair protein (ERCC2) from Cricetulus grisseus. [Arabidopsis thaliana]		

Seq. No.	20997	Seq. ID	OJ990627_32.0103.C28
Gene No.	43837	Strand	-
Start	1	End	8049
Name	OJ990627_32.0103.C28.o1.gp	Method	AAT/GAP
Start	282	End	416
GI	40306_1.R1084	Score	192
Exons	282..416		
GI Descrip.	'2443878 3.0e-16 (AC002294) Unknown protein [Arabidopsis thaliana]'		

Seq. No.	20997	Seq. ID	OJ990627_32.0103.C28
Gene No.	43837	Strand	-
Start	1	End	8049
Name	OJ990627_32.0103.C28.o1.np	Method	AAT/NAP
Start	841	End	4007
GI	6721516	Score	275

Exons 841..860, 2349..2600, 3894..4007  
 GI Descrip. (AP001072) hypothetical protein [Oryza sativa]

Seq. No.	20997	Seq. ID	OJ990627_32.0103.C28
Gene No.	43837	Strand	-
Start	1	End	8049
Name	OJ990627_32.0103.C28.o2.gs	Method	GENSCAN
Start	3339	End	7912
GI	none	Score	.43
Exons	3339..3615, 3687..3700, 3826..4017, 4310..4881, 5021..5246, 5312..5355, 5452..5619, 6751..6858, 7355..7378, 7810..7912		

Seq. No.	20997	Seq. ID	OJ990627_32.0103.C28
Gene No.	43837	Strand	-
Start	1	End	8049
Name	OJ990627_32.0103.C28.o3.np	Method	AAT/NAP
Start	4310	End	6060
GI	3128209	Score	1133
Exons	4310..4881, 5021..5355, 5452..5660, 5987..6060		
GI Descrip.	(AC004077) unknown protein [Arabidopsis thaliana]		

Seq. No.	20997	Seq. ID	OJ990627_32.0103.C28
Gene No.	43837	Strand	-
Start	1	End	8049
Name	OJ990627_32.0103.C28.o3.gp	Method	AAT/GAP
Start	4600	End	5050
GI	3090493	Score	550
Exons	4600..4881, 5021..5050		
GI Descrip.	3128209 7.0e-40 (AC004077) unknown protein [Arabidopsis thaliana]		

Seq. No.	20997	Seq. ID	OJ990627_32.0103.C28
Gene No.	43837	Strand	-
Start	1	End	8049
Name	OJ990627_32.0103.C28.o4.gp	Method	AAT/GAP
Start	4685	End	5137
GI	3090493	Score	538
Exons	4685..4881, 5021..5137		
GI Descrip.	3128209 7.0e-40 (AC004077) unknown protein [Arabidopsis thaliana]		

Seq. No.	20997	Seq. ID	OJ990627_32.0103.C28
Gene No.	43837	Strand	-
Start	1	End	8049
Name	OJ990627_32.0103.C28.o5.gp	Method	AAT/GAP
Start	5124	End	8049
GI	21784_1.R1084	Score	1056
Exons	5124..5355, 5452..5619, 7810..8049		
GI Descrip.	'3128209 2.0e-23 (AC004077) unknown protein [Arabidopsis thaliana]'		

Seq. No.	20997	Seq. ID	OJ990627_32.0103.C28
Gene No.	43838	Strand	-
Start	8916	End	8984
Name	OJ990627_32.0103.C28.o1.tm	Method	TBLASTX:Maize
Start	4199	End	5621
GI	none	Score	45

Exons 4199..4228, 4203..4229, 4203..4229, 4289..4882, 4290..4883,  
4342..4887, 4414..4887, 4610..4678, 4760..4825, 4844..4882,  
5007..5297, 5011..5295, 5018..5323, 5288..5374, 5289..5378,  
5445..5615, 5450..5620, 5451..5621

Seq. No. 20997 Seq. ID OJ990627\_32.0103.C28  
Gene No. 43838 Strand -  
Start 8916 End 8984  
Name OJ990627\_32.0103.C28.o1.ts Method TBLASTX:Soybean  
Start 4373 End 5297  
GI none Score 437  
Exons 4373..4882, 4374..4886, 5007..5213, 5010..5207, 5011..5214,  
5220..5297

Seq. No. 20997 Seq. ID OJ990627\_32.0103.C28  
Gene No. 43838 Strand -  
Start 8916 End 8984  
Name OJ990627\_32.0103.C28.o1.tc Method TBLASTX:Cress  
Start 4388 End 5201  
GI none Score 52  
Exons 4388..4879, 4389..4490, 4554..4868, 5034..5195, 5052..5201

Seq. No. 20997 Seq. ID OJ990627\_32.0103.C28  
Gene No. 43838 Strand -  
Start 8916 End 8984  
Name OJ990627\_32.0103.C28.o1.tw Method TBLASTX:Wheat  
Start 4784 End 5258  
GI none Score 226  
Exons 4784..4837, 4805..4849, 4844..4873, 4845..4868, 5020..5211,  
5022..5210, 5022..5219, 5023..5223, 5226..5258

Seq. No. 20997 Seq. ID OJ990627\_32.0103.C28  
Gene No. 43838 Strand -  
Start 8916 End 8984  
Name OJ990627\_32.0103.C28.o3.tc Method TBLASTX:Cress  
Start 5221 End 5620  
GI none Score 73  
Exons 5221..5295, 5223..5297, 5288..5374, 5289..5357, 5450..5542,  
5555..5620

Seq. No. 20997 Seq. ID OJ990627\_32.0103.C28  
Gene No. 43838 Strand -  
Start 8916 End 8984  
Name OJ990627\_32.0103.C28.o3.ts Method TBLASTX:Soybean  
Start 5300 End 5620  
GI none Score 82  
Exons 5300..5374, 5448..5552, 5450..5560, 5555..5620

Seq. No. 20997 Seq. ID OJ990627\_32.0103.C28  
Gene No. 43838 Strand -  
Start 8916 End 8984  
Name OJ990627\_32.0103.C28.o6.gp Method AAT/GAP  
Start 8916 End 8984  
GI 2312838 Score 64  
Exons 8916..8984  
GI Descrip. 1420932/gb|U61383|ORU61383 7.0e-21 Oryza rufipogon  
4-coumarate-CoA ligase gene, intron 1, partial sequence



Seq. No.	20997	Seq. ID	OJ990627_32.0103.C28
Gene No.	43839	Strand	
Start	10025	End	13579
Name	OJ990627_32.0103.C28.o2.tm	Method	TBLASTX:Maize
Start	10025	End	13579
GI	none	Score	74
Exons	10025..10081, 10028..10081, 11401..11544, 11402..11545, 11403..11555, 12158..12304, 12174..12305, 12175..12312, 12247..12306, 12289..12333, 13018..13233, 13041..13142, 13041..13238, 13042..13233, 13043..13249, 13514..13579, 13515..13577		

Seq. No.	20997	Seq. ID	OJ990627_32.0103.C28
Gene No.	43839	Strand	
Start	10025	End	13579
Name	OJ990627_32.0103.C28.o2.tc	Method	TBLASTX:Cress
Start	11381	End	13128
GI	none	Score	210
Exons	11381..11500, 11401..11544, 11402..11545, 12158..12304, 12175..12312, 13018..13128		

Seq. No.	20997	Seq. ID	OJ990627_32.0103.C28
Gene No.	43839	Strand	
Start	10025	End	13579
Name	OJ990627_32.0103.C28.o2.ts	Method	TBLASTX:Soybean
Start	11401	End	13249
GI	none	Score	227
Exons	11401..11544, 11402..11545, 11406..11549, 12158..12304, 12175..12312, 13018..13233, 13030..13233, 13046..13249		

Seq. No.	20997	Seq. ID	OJ990627_32.0103.C28
Gene No.	43839	Strand	
Start	10025	End	13579
Name	OJ990627_32.0103.C28.o2.tw	Method	TBLASTX:Wheat
Start	12158	End	13579
GI	none	Score	213
Exons	12158..12304, 12164..12304, 12174..12305, 12175..12312, 12247..12306, 13018..13233, 13040..13249, 13041..13142, 13042..13233, 13043..13249, 13514..13579, 13518..13577		

Seq. No.	20998	Seq. ID	OJ990627_32.0103.C29
Gene No.	43840	Strand	-
Start	1	End	668
Name	OJ990627_32.0103.C29.o1.gp	Method	AAT/GAP
Start	1	End	664
GI	none	Score	386
Exons	1..74, 164..211, 570..664		

Seq. No.	20998	Seq. ID	OJ990627_32.0103.C29
Gene No.	43840	Strand	-
Start	1	End	668
Name	OJ990627_32.0103.C29.o1.gs	Method	GENSCAN
Start	164	End	668
GI	none	Score	.67
Exons	164..211, 570..668		

Seq. No.	20999	Seq. ID	OJ990627_32.0103.C31
Gene No.	43841	Strand	+
Start	342	End	604
Name	OJ990627_32.0103.C31.o1.gs	Method	GENSCAN
Start	342	End	604
GI	none	Score	.85
Exons	342..604		
Seq. No.	21000	Seq. ID	OJ990427_21.0114.C1
Gene No.	43842	Strand	+
Start	10769	End	11092
Name	OJ990427_21.0114.C1.o3.gs	Method	GENSCAN
Start	10769	End	11092
GI	none	Score	.97
Exons	10769..10780, 10901..11092		
Seq. No.	21000	Seq. ID	OJ990427_21.0114.C1
Gene No.	43843	Strand	-
Start	7197	End	12674
Name	OJ990427_21.0114.C1.o2.gp	Method	AAT/GAP
Start	7197	End	12674
GI	LIB3477-003-P1-K1-E9	Score	122
Exons	7197..7236, 12621..12674		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		
Seq. No.	21000	Seq. ID	OJ990427_21.0114.C1
Gene No.	43843	Strand	-
Start	7197	End	12674
Name	OJ990427_21.0114.C1.o2.gs	Method	GENSCAN
Start	8006	End	9589
GI	none	Score	.61
Exons	8006..8175, 8408..8542, 8864..9060, 9259..9437, 9470..9589		
Seq. No.	21001	Seq. ID	OJ990427_21.0114.C2
Gene No.	43844	Strand	+
Start	276	End	7385
Name	OJ990427_21.0114.C2.o1.gs	Method	GENSCAN
Start	276	End	7385
GI	none	Score	.86
Exons	276..527, 2367..2492, 4876..5040, 5700..5827, 6497..6599, 6879..7385		
Seq. No.	21001	Seq. ID	OJ990427_21.0114.C2
Gene No.	43844	Strand	+
Start	276	End	7385
Name	OJ990427_21.0114.C2.o1.np	Method	AAT/NAP
Start	4177	End	6125
GI	4680186	Score	.199
Exons	4177..4215, 5924..6125		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		
Seq. No.	21001	Seq. ID	OJ990427_21.0114.C2
Gene No.	43845	Strand	+
Start	7524	End	12637
Name	OJ990427_21.0114.C2.o2.gs	Method	GENSCAN

Start	7524	End	12637
GI	none	Score	.68
Exons	7524..7955, 9028..9151, 9876..10104, 10420..10495, 10571..10675, 10735..10762, 11127..11144, 11345..11624, 12514..12637		

Seq. No.	21001	Seq. ID	OJ990427_21.0114.C2
Gene No.	43846	Strand	-
Start	6520	End	8139
Name	OJ990427_21.0114.C2.o2.np	Method	AAT/NAP
Start	6520	End	8139
GI	6907087	Score	531
Exons	6520..6621, 7165..8139		
GI Descrip.	(AP001129) ESTs C72771(E2215), AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	21001	Seq. ID	OJ990427_21.0114.C2
Gene No.	43847	Strand	-
Start	10463	End	19606
Name	OJ990427_21.0114.C2.o3.np	Method	AAT/NAP
Start	10463	End	14424
GI	6742729	Score	271
Exons	10463..10506, 11762..12383, 14366..14424		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	21001	Seq. ID	OJ990427_21.0114.C2
Gene No.	43847	Strand	-
Start	10463	End	19606
Name	OJ990427_21.0114.C2.o1.tw	Method	TBLASTX:Wheat
Start	11866	End	15804
GI	none	Score	154
Exons	11866..11955, 11958..12215, 15100..15804, 15284..15568		

Seq. No.	21001	Seq. ID	OJ990427_21.0114.C2
Gene No.	43847	Strand	-
Start	10463	End	19606
Name	OJ990427_21.0114.C2.o1.tm	Method	TBLASTX:Maize
Start	11958	End	15769
GI	none	Score	117
Exons	11958..12176, 11958..12218, 12211..12252, 12253..12315, 15454..15768, 15458..15769		

Seq. No.	21001	Seq. ID	OJ990427_21.0114.C2
Gene No.	43847	Strand	-
Start	10463	End	19606
Name	OJ990427_21.0114.C2.o3.gs	Method	GENSCAN
Start	13433	End	19606
GI	none	Score	.63
Exons	13433..13618, 13696..13788, 13890..13950, 14037..14147, 14228..14479, 14563..14839, 14895..15242, 15399..16284, 16301..16675, 17004..17190, 17308..17621, 18643..18728, 19440..19606		

Seq. No.	21001	Seq. ID	OJ990427_21.0114.C2
Gene No.	43847	Strand	-
Start	10463	End	19606
Name	OJ990427_21.0114.C2.o1.tc	Method	TBLASTX:Cress

Start 15100  
 GI none  
 Exons 15100..15522, 15284..15523

End 15523  
 Score 111

Seq. No. 21001  
 Gene No. 43847  
 Start 10463  
 Name OJ990427\_21.0114.C2.o4.np  
 Start 15463  
 GI 100484  
 Exons 15463..16196, 16279..17699  
 GI Descrip. hypothetical protein - garden snapdragon

Seq. ID OJ990427\_21.0114.C2  
 Strand -  
 End 19606  
 Method AAT/NAP  
 End 17699  
 Score 1219

Seq. No. 21001  
 Gene No. 43847  
 Start 10463  
 Name OJ990427\_21.0114.C2.o3.tw  
 Start 16440  
 GI none  
 Exons 16440..16490, 16511..16597, 16515..16658, 16641..16739, 16643..16741, 16745..16783

Seq. ID OJ990427\_21.0114.C2  
 Strand -  
 End 19606  
 Method TBLASTX:Wheat  
 End 16783  
 Score 34

Seq. No. 21001  
 Gene No. 43847  
 Start 10463  
 Name OJ990427\_21.0114.C2.o2.tc  
 Start 16691  
 GI none  
 Exons 16691..17011

Seq. ID OJ990427\_21.0114.C2  
 Strand -  
 End 19606  
 Method TBLASTX:Cress  
 End 17011  
 Score 269

Seq. No. 21001  
 Gene No. 43847  
 Start 10463  
 Name OJ990427\_21.0114.C2.o2.tm  
 Start 16712  
 GI none  
 Exons 16712..16915, 16712..16918, 16728..16949, 16737..16922

Seq. ID OJ990427\_21.0114.C2  
 Strand -  
 End 19606  
 Method TBLASTX:Maize  
 End 16949  
 Score 131

Seq. No. 21001  
 Gene No. 43847  
 Start 10463  
 Name OJ990427\_21.0114.C2.o1.ts  
 Start 16772  
 GI none  
 Exons 16772..17020, 16791..17012, 17044..17166, 17049..17171

Seq. ID OJ990427\_21.0114.C2  
 Strand -  
 End 19606  
 Method TBLASTX:Soybean  
 End 17171  
 Score 98

Seq. No. 21001  
 Gene No. 43847  
 Start 10463  
 Name OJ990427\_21.0114.C2.o2.tw  
 Start 16787  
 GI none  
 Exons 16787..16915, 16907..17008, 16913..17008, 17029..17283, 17049..17339

Seq. ID OJ990427\_21.0114.C2  
 Strand -  
 End 19606  
 Method TBLASTX:Wheat  
 End 17339  
 Score 61

Seq. No. 21002  
 Gene No. 43848

Seq. ID OJ990427\_21.0114.C3  
 Strand +

Start 1920  
 Name OJ990427\_21.0114.C3.o1.gp  
 Start 1920  
 GI 4715762  
 Exons 1920..2512

End 2512  
 Method AAT/GAP  
 End 2512  
 Score 1105

Seq. No. 21002  
 Gene No. 43849  
 Start 7081  
 Name OJ990427\_21.0114.C3.o2.gp  
 Start 7081  
 GI 2338 1.R1084  
 Exons 7081..7236  
 GI Descrip. '5803242/dbj|AP000399.1|AP000399 2.0e-40 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04'

Seq. ID OJ990427\_21.0114.C3  
 Strand +  
 End 7236  
 Method AAT/GAP  
 End 7236  
 Score 190

Seq. No. 21002  
 Gene No. 43850  
 Start 8317  
 Name OJ990427\_21.0114.C3.o2.gs  
 Start 8317  
 GI none  
 Exons 8317..8466, 9118..9210, 9461..9545, 9655..9825, 10045..10453, 10551..10723, 10761..11086

Seq. ID OJ990427\_21.0114.C3  
 Strand +  
 End 11086  
 Method GENSCAN  
 End 11086  
 Score .49

Seq. No. 21002  
 Gene No. 43850  
 Start 8317  
 Name OJ990427\_21.0114.C3.o2.np  
 Start 9621  
 GI 5669654  
 Exons 9621..9845  
 GI Descrip. (AF096262) ER6 protein [Lycopersicon esculentum]

Seq. ID OJ990427\_21.0114.C3  
 Strand +  
 End 11086  
 Method AAT/NAP  
 End 9845  
 Score 81

Seq. No. 21002  
 Gene No. 43851  
 Start 898  
 Name OJ990427\_21.0114.C3.o1.gs  
 Start 898  
 GI none  
 Exons 898..930, 1936..2058, 2476..2626, 2682..2714, 3180..3227, 4255..4355, 4418..4601, 4611..4660, 4810..4895, 5044..5137, 5428..5582, 7211..7248

Seq. ID OJ990427\_21.0114.C3  
 Strand -  
 End 7248  
 Method GENSCAN  
 End 7248  
 Score .42

Seq. No. 21002  
 Gene No. 43851  
 Start 898  
 Name OJ990427\_21.0114.C3.o1.np  
 Start 1943  
 GI 2736513  
 Exons 1943..2556, 3953..3973  
 GI Descrip. (AF039052) No definition line found [Caenorhabditis elegans]

Seq. ID OJ990427\_21.0114.C3  
 Strand -  
 End 7248  
 Method AAT/NAP  
 End 3973  
 Score 88

Seq. No. 21002  
 Gene No. 43852  
 Start 11919  
 Name OJ990427\_21.0114.C3.o3.gs

Seq. ID OJ990427\_21.0114.C3  
 Strand -  
 End 13162  
 Method GENSCAN

Start	11919	End	13162
GI	none	Score	.76
Exons	11919..11932, 13101..13162		

  

Seq. No.	21003	Seq. ID	OJ990427_21.0114.C4
Gene No.	43853	Strand	-
Start	1543	End	1615
Name	OJ990427_21.0114.C4.o1.gp	Method	AAT/GAP
Start	1543	End	1615
GI	LIB3477-003-P1-K1-E9	Score	89
Exons	1543..1615		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

  

Seq. No.	21004	Seq. ID	OJ990427_21.0114.C5
Gene No.	43854	Strand	+
Start	153	End	1263
Name	OJ990427_21.0114.C5.o1.gs	Method	GENSCAN
Start	153	End	1263
GI	none	Score	.46
Exons	153..198, 542..679, 1223..1263		

  

Seq. No.	21005	Seq. ID	OJ990427_21.0114.C6
Gene No.	43855	Strand	+
Start	907	End	2081
Name	OJ990427_21.0114.C6.o1.gs	Method	GENSCAN
Start	907	End	2081
GI	none	Score	.5
Exons	907..982, 2021..2081		

  

Seq. No.	21005	Seq. ID	OJ990427_21.0114.C6
Gene No.	43856	Strand	+
Start	7198	End	9811
Name	OJ990427_21.0114.C6.o2.np	Method	AAT/NAP
Start	7198	End	9811
GI	4584539	Score	175
Exons	7198..7239, 9386..9811		
GI Descrip.	(AL049608) extensin-like protein [Arabidopsis thaliana]		

  

Seq. No.	21005	Seq. ID	OJ990427_21.0114.C6
Gene No.	43857	Strand	+
Start	15226	End	21356
Name	OJ990427_21.0114.C6.o3.np	Method	AAT/NAP
Start	15226	End	21356
GI	6539588	Score	156
Exons	15226..15252, 15973..16034, 17571..17775, 21250..21356		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

  

Seq. No.	21005	Seq. ID	OJ990427_21.0114.C6
Gene No.	43857	Strand	+
Start	15226	End	21356
Name	OJ990427_21.0114.C6.o4.np	Method	AAT/NAP
Start	17819	End	20568
GI	2626948	Score	51
Exons	17819..17839, 19104..19219, 20549..20568		
GI Descrip.	(D32052) NADH dehydrogenase subunit IV [Oryza sativa]		

Seq. No.	21005	Seq. ID	OJ990427_21.0114.C6
Gene No.	43858	Strand	+
Start	23120	End	26268
Name	OJ990427_21.0114.C6.o6.np	Method	AAT/NAP
Start	23120	End	26268
GI	6069659	Score	241
Exons	23120..23149, 25608..25946, 25996..26268		
GI Descrip.	(AP000616) hypothetical protein [Oryza sativa]		

Seq. No.	21005	Seq. ID	OJ990427_21.0114.C6
Gene No.	43858	Strand	+
Start	23120	End	26268
Name	OJ990427_21.0114.C6.o5.np	Method	AAT/NAP
Start	23469	End	24629
GI	4680186	Score	169
Exons	23469..23626, 24196..24629		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	21005	Seq. ID	OJ990427_21.0114.C6
Gene No.	43859	Strand	-
Start	4068	End	15892
Name	OJ990427_21.0114.C6.o2.gs	Method	GENSCAN
Start	4068	End	15892
GI	none	Score	.45
Exons	4068..4110, 4500..4613, 5921..9062, 9504..10520, 11124..11232, 11247..11389, 14003..14120, 15111..15255, 15837..15892		

Seq. No.	21005	Seq. ID	OJ990427_21.0114.C6
Gene No.	43859	Strand	-
Start	4068	End	15892
Name	OJ990427_21.0114.C6.o1.np	Method	AAT/NAP
Start	5932	End	11534
GI	3935164	Score	1867
Exons	5932..9347, 9477..9690, 9851..10281, 11502..11534		
GI Descrip.	(AC004557) F17L21.7 [Arabidopsis thaliana]		

Seq. No.	21005	Seq. ID	OJ990427_21.0114.C6
Gene No.	43860	Strand	-
Start	25291	End	45507
Name	OJ990427_21.0114.C6.o5.tw	Method	TBLASTX:Wheat
Start	5923	End	6139
GI	none	Score	123
Exons	5923..6138, 5924..6139		

Seq. No.	21005	Seq. ID	OJ990427_21.0114.C6
Gene No.	43860	Strand	-
Start	25291	End	45507
Name	OJ990427_21.0114.C6.o4.tm	Method	TBLASTX:Maize
Start	5989	End	6285
GI	none	Score	103
Exons	5989..6285, 5990..6226, 6001..6285		

Seq. No.	21005	Seq. ID	OJ990427_21.0114.C6
Gene No.	43860	Strand	-
Start	25291	End	45507
Name	OJ990427_21.0114.C6.o1.ts	Method	TBLASTX:Soybean

Start	5992	End	6588
GI	none	Score	166
Exons	5992..6588, 5993..6397, 6461..6583		
Seq. No.	21005	Seq. ID	OJ990427_21.0114.C6
Gene No.	43860	Strand	-
Start	25291	End	45507
Name	OJ990427_21.0114.C6.o2.tm	Method	TBLASTX:Maize
Start	6291	End	6753
GI	none	Score	67
Exons	6291..6401, 6295..6753, 6296..6742		
Seq. No.	21005	Seq. ID	OJ990427_21.0114.C6
Gene No.	43860	Strand	-
Start	25291	End	45507
Name	OJ990427_21.0114.C6.o1.tw	Method	TBLASTX:Wheat
Start	6352	End	6783
GI	none	Score	58
Exons	6352..6621, 6353..6406, 6464..6646, 6619..6783, 6623..6775		
Seq. No.	21005	Seq. ID	OJ990427_21.0114.C6
Gene No.	43860	Strand	-
Start	25291	End	45507
Name	OJ990427_21.0114.C6.o3.tm	Method	TBLASTX:Maize
Start	6760	End	7117
GI	none	Score	41
Exons	6760..6801, 6764..6811, 6791..7117, 6802..7116		
Seq. No.	21005	Seq. ID	OJ990427_21.0114.C6
Gene No.	43860	Strand	-
Start	25291	End	45507
Name	OJ990427_21.0114.C6.o3.tw	Method	TBLASTX:Wheat
Start	6814	End	22501
GI	none	Score	104
Exons	6814..6918, 6904..7248, 6905..7249, 22376..22501		
Seq. No.	21005	Seq. ID	OJ990427_21.0114.C6
Gene No.	43860	Strand	-
Start	25291	End	45507
Name	OJ990427_21.0114.C6.o2.ts	Method	TBLASTX:Soybean
Start	6919	End	7413
GI	5509260	Score	90
Exons	6919..7413, 6935..7090		
GI Descrip.	-		
Seq. No.	21005	Seq. ID	OJ990427_21.0114.C6
Gene No.	43860	Strand	-
Start	25291	End	45507
Name	OJ990427_21.0114.C6.o3.tc	Method	TBLASTX:Cress
Start	7030	End	7305
GI	none	Score	85
Exons	7030..7305, 7172..7282		
Seq. No.	21005	Seq. ID	OJ990427_21.0114.C6
Gene No.	43860	Strand	-
Start	25291	End	45507
Name	OJ990427_21.0114.C6.o6.tm	Method	TBLASTX:Maize



Start	7123	End	7369
GI	none	Score	152
Exons	7123..7368, 7130..7369, 7265..7369		

Seq. No.	21005	Seq. ID	OJ990427_21.0114.C6
Gene No.	43860	Strand	-
Start	25291	End	45507
Name	OJ990427_21.0114.C6.o1.tc	Method	TBLASTX:Cress
Start	7975	End	8373
GI	none	Score	300
Exons	7975..8373		

Seq. No.	21005	Seq. ID	OJ990427_21.0114.C6
Gene No.	43860	Strand	-
Start	25291	End	45507
Name	OJ990427_21.0114.C6.o3.ts	Method	TBLASTX:Soybean
Start	7975	End	8433
GI	none	Score	269
Exons	7975..8433		

Seq. No.	21005	Seq. ID	OJ990427_21.0114.C6
Gene No.	43860	Strand	-
Start	25291	End	45507
Name	OJ990427_21.0114.C6.o2.tw	Method	TBLASTX:Wheat
Start	7975	End	8307
GI	none	Score	84
Exons	7975..8307, 8039..8194, 8043..8195		

Seq. No.	21005	Seq. ID	OJ990427_21.0114.C6
Gene No.	43860	Strand	-
Start	25291	End	45507
Name	OJ990427_21.0114.C6.o1.tm	Method	TBLASTX:Maize
Start	7982	End	8443
GI	none	Score	151
Exons	7982..8101, 7984..8361, 7986..8324, 8036..8380, 8336..8443, 8338..8439		

Seq. No.	21005	Seq. ID	OJ990427_21.0114.C6
Gene No.	43860	Strand	-
Start	25291	End	45507
Name	OJ990427_21.0114.C6.o7.tm	Method	TBLASTX:Maize
Start	8449	End	8727
GI	none	Score	50
Exons	8449..8544, 8470..8565, 8557..8724, 8557..8727		

Seq. No.	21005	Seq. ID	OJ990427_21.0114.C6
Gene No.	43860	Strand	-
Start	25291	End	45507
Name	OJ990427_21.0114.C6.o2.tc	Method	TBLASTX:Cress
Start	8533	End	8821
GI	none	Score	85
Exons	8533..8619, 8623..8814, 8624..8821		

Seq. No.	21005	Seq. ID	OJ990427_21.0114.C6
Gene No.	43860	Strand	-
Start	25291	End	45507
Name	OJ990427_21.0114.C6.o4.tw	Method	TBLASTX:Wheat

Start	8629	End	9078
GI	none	Score	45
Exons	8629..8748, 8776..8814, 8811..8855, 8893..9078, 8896..9015		

Seq. No.	21005	Seq. ID	OJ990427_21.0114.C6
Gene No.	43860	Strand	-
Start	25291	End	45507
Name	OJ990427_21.0114.C6.o5.tm	Method	TBLASTX:Maize
Start	8737	End	9054
GI	none	Score	55
Exons	8737..8814, 8738..8812, 8860..9054, 8882..9052		

Seq. No.	21005	Seq. ID	OJ990427_21.0114.C6
Gene No.	43860	Strand	-
Start	25291	End	45507
Name	OJ990427_21.0114.C6.o8.tm	Method	TBLASTX:Maize
Start	9841	End	10282
GI	none	Score	117
Exons	9841..10140, 9844..10137, 10229..10282		

Seq. No.	21005	Seq. ID	OJ990427_21.0114.C6
Gene No.	43860	Strand	-
Start	25291	End	45507
Name	OJ990427_21.0114.C6.o8.np	Method	AAT/NAP
Start	25291	End	45507
GI	4584539	Score	285
Exons	25291..25422, 25969..26034, 26088..26313, 26341..26593, 28003..28059, 33948..34031, 36160..36218, 45324..45507		
GI Descrip.	(AL049608) extensin-like protein [Arabidopsis thaliana]		

Seq. No.	21005	Seq. ID	OJ990427_21.0114.C6
Gene No.	43860	Strand	-
Start	25291	End	45507
Name	OJ990427_21.0114.C6.o7.np	Method	AAT/NAP
Start	33241	End	34385
GI	2842481	Score	107
Exons	33241..33579, 34220..34385		
GI Descrip.	(AL021749) extensin-like protein [Arabidopsis thaliana]		

Seq. No.	21005	Seq. ID	OJ990427_21.0114.C6
Gene No.	43860	Strand	-
Start	25291	End	45507
Name	OJ990427_21.0114.C6.o6.gs	Method	GENSCAN
Start	45111	End	45233
GI	none	Score	1
Exons	45111..45233		

Seq. No.	21006	Seq. ID	OJ990427_21.0114.C7
Gene No.	43861	Strand	+
Start	1070	End	1715
Name	OJ990427_21.0114.C7.o1.gs	Method	GENSCAN
Start	1070	End	1715
GI	none	Score	.58
Exons	1070..1143, 1192..1285, 1556..1715		

Seq. No.	21006	Seq. ID	OJ990427_21.0114.C7
Gene No.	43862	Strand	-

Start	2210	End	6063
Name	OJ990427_21.0114.C7.o2.gs	Method	GENSCAN
Start	2210	End	6063
GI	none	Score	.59
Exons	2210..2430, 5079..5239, 5939..6063		

  

Seq. No.	21006	Seq. ID	OJ990427_21.0114.C7
Gene No.	43863	Strand	-
Start	6745	End	7260
Name	OJ990427_21.0114.C7.o3.gs	Method	GENSCAN
Start	6745	End	7260
GI	none	Score	.59
Exons	6745..6797, 7161..7260		

  

Seq. No.	21007	Seq. ID	OJ990427_21.0114.C8
Gene No.	43864	Strand	+
Start	10258	End	10619
Name	OJ990427_21.0114.C8.o2.gs	Method	GENSCAN
Start	10258	End	10619
GI	none	Score	.74
Exons	10258..10334, 10451..10619		

  

Seq. No.	21007	Seq. ID	OJ990427_21.0114.C8
Gene No.	43865	Strand	+
Start	12018	End	12599
Name	OJ990427_21.0114.C8.o3.gs	Method	GENSCAN
Start	12018	End	12599
GI	none	Score	.55
Exons	12018..12074, 12498..12599		

  

Seq. No.	21007	Seq. ID	OJ990427_21.0114.C8
Gene No.	43866	Strand	+
Start	13049	End	13260
Name	OJ990427_21.0114.C8.o1.gp	Method	AAT/GAP
Start	13049	End	13260
GI	58016_1.R1084	Score	292
Exons	13049..13260		
GI Descrip.	'1076715/pir  A48892 2.0e-11 abscisic acid-induced protein HVA22 - barley >gi_404589 (L19119) A22 [Hordeum vulgare]'		

  

Seq. No.	21007	Seq. ID	OJ990427_21.0114.C8
Gene No.	43867	Strand	+
Start	15391	End	15488
Name	OJ990427_21.0114.C8.o3.np	Method	AAT/NAP
Start	15391	End	15488
GI	6562728	Score	33
Exons	15391..15488		
GI Descrip.	(AL035475) hypothetical protein, MAL4P2.26 [Plasmodium falciparum]		

  

Seq. No.	21007	Seq. ID	OJ990427_21.0114.C8
Gene No.	43868	Strand	-
Start	253	End	8773
Name	OJ990427_21.0114.C8.o1.np	Method	AAT/NAP
Start	253	End	2727
GI	5852182	Score	180
Exons	253..311, 1411..1585, 2701..2727		

GI Descrip. (AL117265) zhb0012.1 [Oryza sativa]

Seq. No.	21007	Seq. ID	OJ990427_21.0114.C8
Gene No.	43868	Strand	-
Start	253	End	8773
Name	OJ990427_21.0114.C8.o1.gs	Method	GENSCAN
Start	1534	End	8773
GI	none	Score	.43
Exons	1534..1585, 2038..2143, 2993..3268, 3506..3629, 3799..4035, 4193..4247, 4954..5056, 8519..8658, 8703..8773		

Seq. No.	21007	Seq. ID	OJ990427_21.0114.C8
Gene No.	43868	Strand	-
Start	253	End	8773
Name	OJ990427_21.0114.C8.o2.np	Method	AAT/NAP
Start	1614	End	3295
GI	6539588	Score	239
Exons	1614..1653, 2985..3295		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	21008	Seq. ID	OJ990427_21.0114.C9
Gene No.	43869	Strand	+
Start	2843	End	2935
Name	OJ990427_21.0114.C9.o3.gp	Method	AAT/GAP
Start	2843	End	2935
GI	LIB3477-003-P1-K1-E9	Score	105
Exons	2843..2935		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	21008	Seq. ID	OJ990427_21.0114.C9
Gene No.	43870	Strand	-
Start	806	End	1656
Name	OJ990427_21.0114.C9.o1.gp	Method	AAT/GAP
Start	806	End	1656
GI	none	Score	1351
Exons	806..1083, 1191..1656		

Seq. No.	21008	Seq. ID	OJ990427_21.0114.C9
Gene No.	43871	Strand	-
Start	2381	End	2842
Name	OJ990427_21.0114.C9.o2.gp	Method	AAT/GAP
Start	2381	End	2842
GI	LIB3432-059-P1-K1-D8	Score	725
Exons	2381..2842		
GI Descrip.	'5734616/dbj AP000391.1 AP000391 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	21009	Seq. ID	OJ990427_21.0114.C10
Gene No.	43872	Strand	+
Start	15294	End	26315
Name	OJ990427_21.0114.C10.o3.gs	Method	GENSCAN
Start	15294	End	26118
GI	none	Score	.66
Exons	15294..15439, 16173..16360, 16534..16561, 17183..17326, 20258..20388, 20859..20917, 21046..21138, 21465..21608,		

21967..22044, 22285..22318, 22506..22777, 25251..25556,  
25960..26118

Seq. No. 21009 Seq. ID OJ990427\_21.0114.C10  
Gene No. 43872 Strand +  
Start 15294 End 26315  
Name OJ990427\_21.0114.C10.o2.np Method AAT/NAP  
Start 21472 End 26112  
GI 2281449 Score 494  
Exons 21472..21608, 21967..22086, 22496..22777, 25251..25495,  
25960..26112  
GI Descrip. (U90214) leucine zipper transcription factor TGA2.1 [Nicotiana  
tabacum]

Seq. No. 21009 Seq. ID OJ990427\_21.0114.C10  
Gene No. 43872 Strand +  
Start 15294 End 26315  
Name OJ990427\_21.0114.C10.o3.gp Method AAT/GAP  
Start 25420 End 26315  
GI uC-osrocyp003c08a1 Score 930  
Exons 25420..25556, 25960..26315  
GI Descrip. '6069643/dbj|AP000616.1|AP000616 1.0e-152 Oryza sativa genomic  
DNA, chromosome 6, clone:P0514G12'

Seq. No. 21009 Seq. ID OJ990427\_21.0114.C10  
Gene No. 43873 Strand -  
Start 985 End 13203  
Name OJ990427\_21.0114.C10.o1.gs Method GENSCAN  
Start 985 End 13203  
GI none Score .8  
Exons 985..1180, 1982..2114, 2696..2775, 5737..6009, 6648..6669,  
7181..7292, 8448..8651, 9206..9346, 9662..9766, 9942..10346,  
11264..11404, 12524..12625, 12697..13203

Seq. No. 21009 Seq. ID OJ990427\_21.0114.C10  
Gene No. 43873 Strand -  
Start 985 End 13203  
Name OJ990427\_21.0114.C10.o1.gp Method AAT/GAP  
Start 1046 End 1462  
GI none Score 769  
Exons 1046..1462

Seq. No. 21009 Seq. ID OJ990427\_21.0114.C10  
Gene No. 43873 Strand -  
Start 985 End 13203  
Name OJ990427\_21.0114.C10.o1.tc Method TBLASTX:Cress  
Start 5966 End 9348  
GI none Score 162  
Exons 5966..6010, 7167..7286, 8436..8654, 8449..8652, 9200..9343,  
9204..9344, 9208..9348, 9231..9347

Seq. No. 21009 Seq. ID OJ990427\_21.0114.C10  
Gene No. 43873 Strand -  
Start 985 End 13203  
Name OJ990427\_21.0114.C10.o1.ts Method TBLASTX:Soybean  
Start 5966 End 13101  
GI none Score 178

Exons 5966..6010, 7167..7292, 7692..7760, 8436..8654, 8452..8652, 9200..9343, 9204..9344, 9211..9348, 9211..9348, 9662..9766, 9663..9767, 9696..9782, 9697..9780, 9939..10022, 9940..10014, 10047..10298, 10097..10297, 10185..10304, 10293..10346, 10294..10347, 11256..11405, 11261..11407, 11261..11410, 12704..12820, 12709..12822, 13030..13101

Seq. No. 21009 Seq. ID OJ990427\_21.0114.C10  
Gene No. 43873 Strand -  
Start 985 End 13203  
Name OJ990427\_21.0114.C10.o1.np Method AAT/NAP  
Start 5969 End 13187  
GI 6729532 Score 1364  
Exons 5969..6009, 7181..7292, 7689..7783, 8417..8651, 9206..9346, 9662..9766, 9942..10024, 10067..10331, 11264..11393, 12719..13187

GI Descrip. (AL132977) putative protein [Arabidopsis thaliana]

Seq. No. 21009 Seq. ID OJ990427\_21.0114.C10  
Gene No. 43873 Strand -  
Start 985 End 13203  
Name OJ990427\_21.0114.C10.o2.tm Method TBLASTX:Maize  
Start 7686 End 9320  
GI none Score 106  
Exons 7686..7775, 7686..7775, 7690..7776, 7693..7776, 8440..8652, 8445..8654, 8448..8654, 9184..9315, 9200..9319, 9204..9320

Seq. No. 21009 Seq. ID OJ990427\_21.0114.C10  
Gene No. 43873 Strand -  
Start 985 End 13203  
Name OJ990427\_21.0114.C10.o1.tm Method TBLASTX:Maize  
Start 10017 End 12823  
GI none Score 121  
Exons 10017..10139, 10017..10346, 10019..10348, 11261..11410, 11262..11411, 12698..12823, 12709..12822

Seq. No. 21009 Seq. ID OJ990427\_21.0114.C10  
Gene No. 43873 Strand -  
Start 985 End 13203  
Name OJ990427\_21.0114.C10.o2.gp Method AAT/GAP  
Start 10024 End 11369  
GI LIB3431-060-P1-K1-A7 Score 804  
Exons 10024..10346, 11264..11369  
GI Descrip. '2673914 1.0e-25 (AC002561) hypothetical protein [Arabidopsis thaliana]'

Seq. No. 21009 Seq. ID OJ990427\_21.0114.C10  
Gene No. 43873 Strand -  
Start 985 End 13203  
Name OJ990427\_21.0114.C10.o4.tm Method TBLASTX:Maize  
Start 12910 End 13104  
GI none Score 118  
Exons 12910..12960, 13000..13104, 13007..13093

Seq. No. 21009 Seq. ID OJ990427\_21.0114.C10  
Gene No. 43874 Strand -  
Start 21540 End 25355

Name	OJ990427_21.0114.C10.o2.tc	Method	TBLASTX:Cress
Start	21540	End	25355
GI	none	Score	104
Exons	21540..21608, 21964..22044, 22507..22779, 22508..22780, 25248..25355		

Seq. No.	21009	Seq. ID	OJ990427_21.0114.C10
Gene No.	43874	Strand	
Start	21540	End	25355
Name	OJ990427_21.0114.C10.o1.tw	Method	TBLASTX:Wheat
Start	21561	End	22756
GI	none	Score	65
Exons	21561..21605, 21967..22044, 22508..22756, 22516..22644, 22702..22755		

Seq. No.	21009	Seq. ID	OJ990427_21.0114.C10
Gene No.	43874	Strand	
Start	21540	End	25355
Name	OJ990427_21.0114.C10.o2.ts	Method	TBLASTX:Soybean
Start	21964	End	22773
GI	none	Score	78
Exons	21964..22044, 22502..22771, 22504..22773		

Seq. No.	21009	Seq. ID	OJ990427_21.0114.C10
Gene No.	43874	Strand	
Start	21540	End	25355
Name	OJ990427_21.0114.C10.o3.tm	Method	TBLASTX:Maize
Start	22501	End	25322
GI	none	Score	274
Exons	22501..22776, 22502..22780, 25248..25322		

Seq. No.	21010	Seq. ID	OJ990427_21.0114.C11
Gene No.	43875	Strand	+
Start	1131	End	1513
Name	OJ990427_21.0114.C11.o1.gs	Method	GENSCAN
Start	1131	End	1499
GI	none	Score	.89
Exons	1131..1499		

Seq. No.	21010	Seq. ID	OJ990427_21.0114.C11
Gene No.	43875	Strand	+
Start	1131	End	1513
Name	OJ990427_21.0114.C11.o1.np	Method	AAT/NAP
Start	1152	End	1513
GI	6729531	Score	267
Exons	1152..1208, 1266..1513		
GI Descrip.	(AL132977) anthranilate phosphoribosyltransferase-like protein [Arabidopsis thaliana]		

Seq. No.	21010	Seq. ID	OJ990427_21.0114.C11
Gene No.	43875	Strand	+
Start	1131	End	1513
Name	OJ990427_21.0114.C11.o1.tc	Method	TBLASTX:Cress
Start	1274	End	1511
GI	none	Score	118
Exons	1274..1381, 1284..1385, 1391..1498, 1392..1511		

Seq. No.	21010	Seq. ID	OJ990427_21.0114.C11
Gene No.	43875	Strand	+
Start	1131	End	1513
Name	OJ990427_21.0114.C11.o1.ts	Method	TBLASTX:Soybean
Start	1344	End	1511
GI	none	Score	48
Exons	1344..1385, 1391..1492, 1392..1511		
Seq. No.	21011	Seq. ID	OJ990427_21.0114.C12
Gene No.	43876	Strand	+
Start	1	End	1545
Name	OJ990427_21.0114.C12.o1.np	Method	AAT/NAP
Start	1	End	1542
GI	6729531	Score	1756
Exons	1..525, 559..1542		
GI Descrip.	(AL132977) anthranilate phosphoribosyltransferase-like protein [Arabidopsis thaliana]		
Seq. No.	21011	Seq. ID	OJ990427_21.0114.C12
Gene No.	43876	Strand	+
Start	1	End	1545
Name	OJ990427_21.0114.C12.o1.gs	Method	GENSCAN
Start	220	End	1545
GI	none	Score	1
Exons	220..1545		
Seq. No.	21011	Seq. ID	OJ990427_21.0114.C12
Gene No.	43877	Strand	+
Start	2617	End	3026
Name	OJ990427_21.0114.C12.o2.gs	Method	GENSCAN
Start	2617	End	3026
GI	none	Score	.62
Exons	2617..2837, 2915..3026		
Seq. No.	21011	Seq. ID	OJ990427_21.0114.C12
Gene No.	43878	Strand	-
Start	1481	End	2214
Name	OJ990427_21.0114.C12.o2.np	Method	AAT/NAP
Start	1481	End	2214
GI	67870	Score	315
Exons	1481..1707, 2016..2214		
GI Descrip.	H <sup>+</sup> -transporting ATP synthase (EC 3.6.1.34) epsilon chain - barley chloroplast		
Seq. No.	21011	Seq. ID	OJ990427_21.0114.C12
Gene No.	43879	Strand	-
Start	2213	End	2352
Name	OJ990427_21.0114.C12.o3.np	Method	AAT/NAP
Start	2213	End	2352
GI	6815115	Score	178
Exons	2213..2352		
GI Descrip.	(AB037543) ATP synthase beta subunit [Oryza sativa]		
Seq. No.	21011	Seq. ID	OJ990427_21.0114.C12
Gene No.	43880	Strand	-
Start	4075	End	14655
Name	OJ990427_21.0114.C12.o3.gs	Method	GENSCAN



Start	4075	End	14655
GI	none	Score	.53
Exons	4075..4078, 4163..4287, 4418..4693, 4768..4895, 5128..5277, 5557..5705, 6517..7986, 8002..10437, 10615..10662, 10751..10850, 11438..11557, 11655..11720, 11796..11849, 11978..12046, 12227..12295, 13015..13088, 13474..13604, 13821..13909, 13946..14116, 14180..14314, 14583..14655		

Seq. No.	21011	Seq. ID	OJ990427_21.0114.C12
Gene No.	43880	Strand	-
Start	4075	End	14655
Name	OJ990427_21.0114.C12.o4.np	Method	AAT/NAP
Start	6516	End	10421
GI	6539553	Score	6751
Exons	6516..10421		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi 6539590 dbj BAA88206.1  (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	21011	Seq. ID	OJ990427_21.0114.C12
Gene No.	43881	Strand	-
Start	15624	End	17292
Name	OJ990427_21.0114.C12.o2.tc	Method	TBLASTX:Cress
Start	207	End	792
GI	none	Score	160
Exons	207..335, 208..336, 333..500, 334..489, 562..792, 576..746		

Seq. No.	21011	Seq. ID	OJ990427_21.0114.C12
Gene No.	43881	Strand	-
Start	15624	End	17292
Name	OJ990427_21.0114.C12.o2.ts	Method	TBLASTX:Soybean
Start	207	End	636
GI	none	Score	120
Exons	207..335, 208..345, 342..497, 343..489, 550..636, 576..626		

Seq. No.	21011	Seq. ID	OJ990427_21.0114.C12
Gene No.	43881	Strand	-
Start	15624	End	17292
Name	OJ990427_21.0114.C12.o2.tm	Method	TBLASTX:Maize
Start	207	End	500
GI	none	Score	417
Exons	207..500, 208..489		

Seq. No.	21011	Seq. ID	OJ990427_21.0114.C12
Gene No.	43881	Strand	-
Start	15624	End	17292
Name	OJ990427_21.0114.C12.o3.tw	Method	TBLASTX:Wheat
Start	342	End	771
GI	none	Score	242
Exons	342..500, 343..489, 559..771, 564..767		

Seq. No.	21011	Seq. ID	OJ990427_21.0114.C12
Gene No.	43881	Strand	-
Start	15624	End	17292
Name	OJ990427_21.0114.C12.o1.tm	Method	TBLASTX:Maize
Start	595	End	1224

GI	none	Score	956
Exons	595..1224, 597..1184		
Seq. No.	21011	Seq. ID	OJ990427_21.0114.C12
Gene No.	43881	Strand	-
Start	15624	End	17292
Name	OJ990427_21.0114.C12.o1.ts	Method	TBLASTX:Soybean
Start	675	End	1545
GI	none	Score	1041
Exons	675..1445, 676..1545, 1438..1545		
Seq. No.	21011	Seq. ID	OJ990427_21.0114.C12
Gene No.	43881	Strand	-
Start	15624	End	17292
Name	OJ990427_21.0114.C12.o1.tc	Method	TBLASTX:Cress
Start	793	End	1455
GI	none	Score	264
Exons	793..1011, 903..1445, 1060..1455		
Seq. No.	21011	Seq. ID	OJ990427_21.0114.C12
Gene No.	43881	Strand	-
Start	15624	End	17292
Name	OJ990427_21.0114.C12.o4.tm	Method	TBLASTX:Maize
Start	1225	End	1554
GI	none	Score	391
Exons	1225..1554, 1236..1547		
Seq. No.	21011	Seq. ID	OJ990427_21.0114.C12
Gene No.	43881	Strand	-
Start	15624	End	17292
Name	OJ990427_21.0114.C12.o4.ts	Method	TBLASTX:Soybean
Start	2015	End	2349
GI	none	Score	215
Exons	2015..2203, 2016..2204, 2017..2205, 2017..2208, 2199..2345, 2204..2347, 2246..2344, 2263..2349		
Seq. No.	21011	Seq. ID	OJ990427_21.0114.C12
Gene No.	43881	Strand	-
Start	15624	End	17292
Name	OJ990427_21.0114.C12.o3.tc	Method	TBLASTX:Cress
Start	2016	End	2349
GI	none	Score	35
Exons	2016..2045, 2026..2208, 2051..2203, 2211..2345, 2246..2344, 2263..2349		
Seq. No.	21011	Seq. ID	OJ990427_21.0114.C12
Gene No.	43881	Strand	-
Start	15624	End	17292
Name	OJ990427_21.0114.C12.o2.tw	Method	TBLASTX:Wheat
Start	6652	End	7128
GI	none	Score	361
Exons	6652..7038, 6690..7037, 7053..7127, 7055..7126, 7057..7128		
Seq. No.	21011	Seq. ID	OJ990427_21.0114.C12
Gene No.	43881	Strand	-
Start	15624	End	17292
Name	OJ990427_21.0114.C12.o7.ts	Method	TBLASTX:Soybean

Start	6780	End	7121
GI	none	Score	79
Exons	6780..6989, 6859..6984, 7008..7121, 7015..7095		

Seq. No.	21011	Seq. ID	OJ990427_21.0114.C12
Gene No.	43881	Strand	-
Start	15624	End	17292
Name	OJ990427_21.0114.C12.o7.tm	Method	TBLASTX:Maize
Start	6984	End	7323
GI	none	Score	210
Exons	6984..7322, 6985..7323		

Seq. No.	21011	Seq. ID	OJ990427_21.0114.C12
Gene No.	43881	Strand	-
Start	15624	End	17292
Name	OJ990427_21.0114.C12.o5.ts	Method	TBLASTX:Soybean
Start	7134	End	7479
GI	none	Score	126
Exons	7134..7478, 7279..7479		

Seq. No.	21011	Seq. ID	OJ990427_21.0114.C12
Gene No.	43881	Strand	-
Start	15624	End	17292
Name	OJ990427_21.0114.C12.o4.tw	Method	TBLASTX:Wheat
Start	7332	End	7877
GI	none	Score	49
Exons	7332..7538, 7342..7464, 7533..7877, 7557..7730		

Seq. No.	21011	Seq. ID	OJ990427_21.0114.C12
Gene No.	43881	Strand	-
Start	15624	End	17292
Name	OJ990427_21.0114.C12.o6.tm	Method	TBLASTX:Maize
Start	7431	End	7878
GI	none	Score	47
Exons	7431..7877, 7516..7626, 7560..7742, 7696..7878		

Seq. No.	21011	Seq. ID	OJ990427_21.0114.C12
Gene No.	43881	Strand	-
Start	15624	End	17292
Name	OJ990427_21.0114.C12.o3.ts	Method	TBLASTX:Soybean
Start	7548	End	8012
GI	5509260	Score	48
Exons	7548..8012, 7699..7794, 7843..7911		
GI Descrip.	-		

Seq. No.	21011	Seq. ID	OJ990427_21.0114.C12
Gene No.	43881	Strand	-
Start	15624	End	17292
Name	OJ990427_21.0114.C12.o4.tc	Method	TBLASTX:Cress
Start	7659	End	7919
GI	none	Score	62
Exons	7659..7919, 7840..7917		

Seq. No.	21011	Seq. ID	OJ990427_21.0114.C12
Gene No.	43881	Strand	-
Start	15624	End	17292
Name	OJ990427_21.0114.C12.o1.tw	Method	TBLASTX:Wheat

Start	7932	End	8687
GI	none	Score	188
Exons	7932..8171, 7933..8091, 7952..8149, 8200..8679, 8217..8687		
Seq. No.	21011	Seq. ID	OJ990427_21.0114.C12
Gene No.	43881	Strand	-
Start	15624	End	17292
Name	OJ990427_21.0114.C12.o5.tc	Method	TBLASTX:Cress
Start	8313	End	8702
GI	none	Score	112
Exons	8313..8507, 8520..8702		
Seq. No.	21011	Seq. ID	OJ990427_21.0114.C12
Gene No.	43881	Strand	-
Start	15624	End	17292
Name	OJ990427_21.0114.C12.o6.ts	Method	TBLASTX:Soybean
Start	8337	End	8735
GI	none	Score	38
Exons	8337..8510, 8464..8502, 8511..8735, 8556..8726, 8557..8727		
Seq. No.	21011	Seq. ID	OJ990427_21.0114.C12
Gene No.	43881	Strand	-
Start	15624	End	17292
Name	OJ990427_21.0114.C12.o8.tm	Method	TBLASTX:Maize
Start	8523	End	8957
GI	none	Score	84
Exons	8523..8957, 8548..8748		
Seq. No.	21011	Seq. ID	OJ990427_21.0114.C12
Gene No.	43881	Strand	-
Start	15624	End	17292
Name	OJ990427_21.0114.C12.o6.tw	Method	TBLASTX:Wheat
Start	8688	End	8880
GI	none	Score	186
Exons	8688..8879, 8688..8879, 8689..8880, 8809..8880		
Seq. No.	21011	Seq. ID	OJ990427_21.0114.C12
Gene No.	43881	Strand	-
Start	15624	End	17292
Name	OJ990427_21.0114.C12.o8.ts	Method	TBLASTX:Soybean
Start	8745	End	9131
GI	none	Score	88
Exons	8745..8993, 8976..9131		
Seq. No.	21011	Seq. ID	OJ990427_21.0114.C12
Gene No.	43881	Strand	-
Start	15624	End	17292
Name	OJ990427_21.0114.C12.o3.tm	Method	TBLASTX:Maize
Start	9158	End	9480
GI	none	Score	395
Exons	9158..9325, 9159..9473, 9160..9453, 9226..9480		
Seq. No.	21011	Seq. ID	OJ990427_21.0114.C12
Gene No.	43881	Strand	-
Start	15624	End	17292
Name	OJ990427_21.0114.C12.o5.tm	Method	TBLASTX:Maize
Start	9979	End	10292

GI	none	Score	297
Exons	9979..10284, 9981..10292		
Seq. No.	21011	Seq. ID	OJ990427_21.0114.C12
Gene No.	43881	Strand	-
Start	15624	End	17292
Name	OJ990427_21.0114.C12.o5.tw	Method	TBLASTX:Wheat
Start	10041	End	10427
GI	none	Score	258
Exons	10041..10427, 10042..10416		

Seq. No.	21011	Seq. ID	OJ990427_21.0114.C12
Gene No.	43881	Strand	-
Start	15624	End	17292
Name	OJ990427_21.0114.C12.o4.gs	Method	GENSCAN
Start	15624	End	17292
GI	none	Score	.42
Exons	15624..15784, 16629..16769, 17076..17292		

Seq. No.	21012	Seq. ID	OJ990427_21.0114.C13
Gene No.	43882	Strand	-
Start	484	End	644
Name	OJ990427_21.0114.C13.o1.gs	Method	GENSCAN
Start	484	End	644
GI	none	Score	.54
Exons	484..644		

Seq. No.	21012	Seq. ID	OJ990427_21.0114.C13
Gene No.	43883	Strand	-
Start	742	End	881
Name	OJ990427_21.0114.C13.o1.np	Method	AAT/NAP
Start	742	End	881
GI	114559	Score	151
Exons	742..881		

GI Descrip. ATP SYNTHASE BETA CHAIN gi|67836|pir||PWRZB H+-transporting ATP synthase (EC 3.6.1.34) beta chain - rice chloroplast gi|11991|emb|CAA34003| (X15901) atpB; ATPase beta subunit [Oryza sativa] gi|344014|dbj|BAA00334| (D00432) ATP synthetase beta subunit [Oryza sativa] gi|226612|prf||1603356AJ ATPase beta [Oryza sativa]

Seq. No.	21013	Seq. ID	OJ990427_21.0114.C15
Gene No.	43884	Strand	+
Start	1	End	541
Name	OJ990427_21.0114.C15.o1.np	Method	AAT/NAP
Start	1	End	541
GI	6729531	Score	564
Exons	1..541		

GI Descrip. (AL132977) anthranilate phosphoribosyltransferase-like protein [Arabidopsis thaliana]

Seq. No.	21013	Seq. ID	OJ990427_21.0114.C15
Gene No.	43884	Strand	+
Start	1	End	541
Name	OJ990427_21.0114.C15.o1.tm	Method	TBLASTX:Maize
Start	2	End	540
GI	none	Score	55

Exons 2..70, 70..225, 280..540, 303..539, 325..540

Seq. No.	21013	Seq. ID	OJ990427_21.0114.C15
Gene No.	43884	Strand	+
Start	1	End	541
Name	OJ990427_21.0114.C15.o1.ts	Method	TBLASTX:Soybean
Start	5	End	540
GI	none	Score	60
Exons	5..67, 7..42, 73..225, 76..231, 303..539, 307..540		

Seq. No.	21013	Seq. ID	OJ990427_21.0114.C15
Gene No.	43884	Strand	+
Start	1	End	541
Name	OJ990427_21.0114.C15.o1.tc	Method	TBLASTX:Cress
Start	70	End	411
GI	none	Score	205
Exons	70..225, 232..273, 273..410, 274..411		

Seq. No.	21013	Seq. ID	OJ990427_21.0114.C15
Gene No.	43884	Strand	+
Start	1	End	541
Name	OJ990427_21.0114.C15.o1.gs	Method	GENSCAN
Start	85	End	516
GI	none	Score	.99
Exons	85..516		

Seq. No.	21013	Seq. ID	OJ990427_21.0114.C15
Gene No.	43884	Strand	+
Start	1	End	541
Name	OJ990427_21.0114.C15.o2.tc	Method	TBLASTX:Cress
Start	412	End	540
GI	none	Score	177
Exons	412..540, 417..539		

Seq. No.	21014	Seq. ID	OJ990427_21.0114.C16
Gene No.	43885	Strand	+
Start	469	End	561
Name	OJ990427_21.0114.C16.o1.np	Method	AAT/NAP
Start	469	End	561
GI	2498930	Score	58
Exons	469..561		
GI Descrip.	DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi 1203794 (U18774) Sog [Drosophila melanogaster]		

Seq. No.	21014	Seq. ID	OJ990427_21.0114.C16
Gene No.	43886	Strand	+
Start	473	End	532
Name	OJ990427_21.0114.C16.o1.gs	Method	GENSCAN
Start	473	End	532
GI	none	Score	.94
Exons	473..532		

Seq. No.	21015	Seq. ID	OJ990427_21.0114.C25
Gene No.	43887	Strand	+
Start	1	End	658
Name	OJ990427_21.0114.C25.o1.gp	Method	AAT/GAP
Start	1	End	373

GI uC-osflcyp172f01b1 Score 459  
 Exons 1..76, 183..373  
 GI Descrip. '5852170/emb|AL117265.1|OST17804 2.0e-27 Oryza sativa  
 indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'

Seq. No. 21015 Seq. ID OJ990427\_21.0114.C25  
 Gene No. 43887 Strand +  
 Start 1 End 658  
 Name OJ990427\_21.0114.C25.o1.gs Method GENSCAN  
 Start 1 End 658  
 GI none Score .44  
 Exons 1..76, 183..658

Seq. No. 21015 Seq. ID OJ990427\_21.0114.C25  
 Gene No. 43887 Strand +  
 Start 1 End 658  
 Name OJ990427\_21.0114.C25.o1.ts Method TBLASTX:Soybean  
 Start 197 End 643  
 GI none Score 56  
 Exons 197..289, 324..365, 359..418, 428..643, 430..642

Seq. No. 21016 Seq. ID OJ990707\_14.0125.C2  
 Gene No. 43888 Strand +  
 Start 43 End 1719  
 Name OJ990707\_14.0125.C2.o1.gs Method GENSCAN  
 Start 43 End 1719  
 GI none Score .43  
 Exons 43..136, 198..377, 1467..1550, 1592..1719

Seq. No. 21017 Seq. ID OJ990707\_14.0125.C3  
 Gene No. 43889 Strand +  
 Start 806 End 906  
 Name OJ990707\_14.0125.C3.o1.gs Method GENSCAN  
 Start 806 End 906  
 GI none Score .59  
 Exons 806..906

Seq. No. 21018 Seq. ID OJ990707\_14.0125.C4  
 Gene No. 43890 Strand +  
 Start 1212 End 1920  
 Name OJ990707\_14.0125.C4.o1.gs Method GENSCAN  
 Start 1212 End 1920  
 GI none Score .83  
 Exons 1212..1418, 1516..1920

Seq. No. 21018 Seq. ID OJ990707\_14.0125.C4  
 Gene No. 43891 Strand -  
 Start 1 End 1761  
 Name OJ990707\_14.0125.C4.o1.np Method AAT/NAP  
 Start 1 End 1761  
 GI 5915857 Score 550  
 Exons 1..73, 1258..1761  
 GI Descrip. CYTOCHROME P450 98A1 gi|2766448 (AF029856) cytochrome P450  
 CYP98A1 [Sorghum bicolor]

Seq. No. 21018 Seq. ID OJ990707\_14.0125.C4  
 Gene No. 43891 Strand -

Start	1	End	1761
Name	OJ990707_14.0125.C4.o1.gp	Method	AAT/GAP
Start	73	End	401
GI	uC-osflcyp176d12b1	Score	484
Exons	73..310, 334..401		
GI Descrip.	'5803242/dbj AP000399.1 AP000399 0.0e+00 Oryza sativa genomic DNA, -chromosome 6, clone:P0535G04'		

Seq. No.	21018	Seq. ID	OJ990707_14.0125.C4
Gene No.	43891	Strand	-
Start	1	End	1761
Name	OJ990707_14.0125.C4.o1.ts	Method	TBLASTX:Soybean
Start	1254	End	1677
GI	none	Score	206
Exons	1254..1487, 1279..1485, 1495..1638, 1502..1654, 1635..1670, 1636..1677		

Seq. No.	21018	Seq. ID	OJ990707_14.0125.C4
Gene No.	43891	Strand	-
Start	1	End	1761
Name	OJ990707_14.0125.C4.o1.tm	Method	TBLASTX:Maize
Start	1258	End	1694
GI	none	Score	228
Exons	1258..1479, 1260..1487, 1263..1487, 1493..1630, 1494..1637, 1495..1638, 1496..1639, 1635..1694, 1636..1686		

Seq. No.	21018	Seq. ID	OJ990707_14.0125.C4
Gene No.	43891	Strand	-
Start	1	End	1761
Name	OJ990707_14.0125.C4.o1.tc	Method	TBLASTX:Cress
Start	1263	End	1661
GI	none	Score	169
Exons	1263..1487, 1264..1476, 1495..1638, 1502..1639, 1623..1661		

Seq. No.	21018	Seq. ID	OJ990707_14.0125.C4
Gene No.	43891	Strand	-
Start	1	End	1761
Name	OJ990707_14.0125.C4.o1.tw	Method	TBLASTX:Wheat
Start	1353	End	1694
GI	none	Score	141
Exons	1353..1487, 1354..1479, 1465..1638, 1466..1654, 1635..1694, 1636..1686		

Seq. No.	21019	Seq. ID	OJ990707_14.0125.C5
Gene No.	43892	Strand	+
Start	496	End	1478
Name	OJ990707_14.0125.C5.o1.gs	Method	GENSCAN
Start	496	End	1478
GI	none	Score	.72
Exons	496..561, 1284..1478		

Seq. No.	21020	Seq. ID	OJ990707_14.0125.C6
Gene No.	43893	Strand	
Start	154	End	479
Name	OJ990707_14.0125.C6.o1.tw	Method	TBLASTX:Wheat
Start	154	End	479
GI	none	Score	36



Exons 154..198, 190..297, 194..307, 206..319, 306..383, 306..380,  
310..384, 313..381, 383..454, 384..479

Seq. No. 21021 Seq. ID OJ990707\_14.0125.C7  
Gene No. 43894 Strand +  
Start 1620 End 5067  
Name OJ990707\_14.0125.C7.o7.tw Method TBLASTX:Wheat  
Start 905 End 1249  
GI none Score 175  
Exons 905..1249

Seq. No. 21021 Seq. ID OJ990707\_14.0125.C7  
Gene No. 43894 Strand +  
Start 1620 End 5067  
Name OJ990707\_14.0125.C7.o1.np Method AAT/NAP  
Start 1620 End 5067  
GI 4206306 Score 2514  
Exons 1620..1709, 1883..5067  
GI Descrip. (AF049110) prpol [Zea mays]

Seq. No. 21021 Seq. ID OJ990707\_14.0125.C7  
Gene No. 43894 Strand +  
Start 1620 End 5067  
Name OJ990707\_14.0125.C7.o5.tw Method TBLASTX:Wheat  
Start 2042 End 2401  
GI none Score 88  
Exons 2042..2173, 2200..2400, 2201..2401

Seq. No. 21021 Seq. ID OJ990707\_14.0125.C7  
Gene No. 43894 Strand +  
Start 1620 End 5067  
Name OJ990707\_14.0125.C7.o3.tw Method TBLASTX:Wheat  
Start 2606 End 2951  
GI none Score 286  
Exons 2606..2905, 2656..2898, 2755..2925, 2912..2950, 2913..2951

Seq. No. 21021 Seq. ID OJ990707\_14.0125.C7  
Gene No. 43894 Strand +  
Start 1620 End 5067  
Name OJ990707\_14.0125.C7.o2.tm Method TBLASTX:Maize  
Start 2734 End 3083  
GI none Score 206  
Exons 2734..2901, 2735..2905, 2777..2905, 2909..3082, 2913..3083

Seq. No. 21021 Seq. ID OJ990707\_14.0125.C7  
Gene No. 43894 Strand +  
Start 1620 End 5067  
Name OJ990707\_14.0125.C7.o1.tw Method TBLASTX:Wheat  
Start 2952 End 3371  
GI none Score 444  
Exons 2952..3371, 2954..3121, 2964..3368, 3158..3370

Seq. No. 21021 Seq. ID OJ990707\_14.0125.C7  
Gene No. 43894 Strand +  
Start 1620 End 5067  
Name OJ990707\_14.0125.C7.o1.tm Method TBLASTX:Maize  
Start 3111 End 3494

GI	none	Score	394
Exons	3111..3494, 3132..3446, 3152..3481		
Seq. No.	21021	Seq. ID	OJ990707_14.0125.C7
Gene No.	43894	Strand	+
Start	1620	End	5067
Name	OJ990707_14.0125.C7.o1.ts	Method	TBLASTX:Soybean
Start	3213	End	3554
GI	none	Score	240
Exons	3213..3554, 3266..3406		
Seq. No.	21021	Seq. ID	OJ990707_14.0125.C7
Gene No.	43894	Strand	+
Start	1620	End	5067
Name	OJ990707_14.0125.C7.o6.tw	Method	TBLASTX:Wheat
Start	3420	End	3796
GI	none	Score	96
Exons	3420..3575, 3671..3796, 3676..3789		
Seq. No.	21021	Seq. ID	OJ990707_14.0125.C7
Gene No.	43894	Strand	+
Start	1620	End	5067
Name	OJ990707_14.0125.C7.o2.tw	Method	TBLASTX:Wheat
Start	3862	End	4294
GI	none	Score	305
Exons	3862..4293, 3863..4294		
Seq. No.	21021	Seq. ID	OJ990707_14.0125.C7
Gene No.	43894	Strand	+
Start	1620	End	5067
Name	OJ990707_14.0125.C7.o3.tm	Method	TBLASTX:Maize
Start	4496	End	4954
GI	none	Score	342
Exons	4496..4954, 4621..4815, 4861..4953		
Seq. No.	21021	Seq. ID	OJ990707_14.0125.C7
Gene No.	43894	Strand	+
Start	1620	End	5067
Name	OJ990707_14.0125.C7.o4.tw	Method	TBLASTX:Wheat
Start	4604	End	4993
GI	none	Score	251
Exons	4604..4993		
Seq. No.	21022	Seq. ID	OJ990707_14.0125.C8
Gene No.	43895	Strand	+
Start	1	End	241
Name	OJ990707_14.0125.C8.o1.np	Method	AAT/NAP
Start	1	End	238
GI	4206306	Score	156
Exons	1..238		
GI Descrip..	(AF049110) prpol [Zea mays]		
Seq. No.	21022	Seq. ID	OJ990707_14.0125.C8
Gene No.	43895	Strand	+
Start	1	End	241
Name	OJ990707_14.0125.C8.o1.gs	Method	GENSCAN
Start	76	End	241

GI	none	Score	.99
Exons	76..241		
Seq. No.	21022	Seq. ID	OJ990707_14.0125.C8
Gene No.	43896	Strand	-
Start	867	End	4028
Name	OJ990707_14.0125.C8.o2.gs	Method	GENSCAN
Start	867	End	4028
GI	none	Score	.58
Exons	867..1304, 1581..1804, 1849..2308, 2411..2632, 2676..3003, 3151..3331, 3420..3960, 3976..4028		
Seq. No.	21023	Seq. ID	OJ990707_14.0125.C10
Gene No.	43897	Strand	-
Start	754	End	1019
Name	OJ990707_14.0125.C10.o1.gs	Method	GENSCAN
Start	754	End	1019
GI	none	Score	.52
Exons	754..902, 983..1019		
Seq. No.	21024	Seq. ID	OJ990707_14.0125.C11
Gene No.	43898	Strand	+
Start	1	End	2462
Name	OJ990707_14.0125.C11.o1.np	Method	AAT/NAP
Start	1	End	2462
GI	1171577	Score	569
Exons	1..187, 1456..1688, 1752..2462		
GI Descrip.	(X95343) hypersensitivity-related gene [Nicotiana tabacum]		
Seq. No.	21024	Seq. ID	OJ990707_14.0125.C11
Gene No.	43898	Strand	+
Start	1	End	2462
Name	OJ990707_14.0125.C11.o1.tm	Method	TBLASTX:Maize
Start	14	End	2112
GI	none	Score	72
Exons	14..85, 1456..1656, 1458..1607, 1769..1825, 1813..1956, 1981..2112		
Seq. No.	21024	Seq. ID	OJ990707_14.0125.C11
Gene No.	43898	Strand	+
Start	1	End	2462
Name	OJ990707_14.0125.C11.o1.gs	Method	GENSCAN
Start	59	End	2448
GI	none	Score	.95
Exons	59..187, 1456..2448		
Seq. No.	21024	Seq. ID	OJ990707_14.0125.C11
Gene No.	43898	Strand	+
Start	1	End	2462
Name	OJ990707_14.0125.C11.o1.ts	Method	TBLASTX:Soybean
Start	89	End	2427
GI	none	Score	72
Exons	89..193, 1456..1569, 1783..1980, 1978..2142, 2221..2427		
Seq. No.	21025	Seq. ID	OJ990707_14.0125.C12
Gene No.	43899	Strand	+
Start	237	End	2188

Name	OJ990707_14.0125.C12.o1.gs	Method	GENSCAN
Start	237	End	2188
GI	none	Score	.69
Exons	237..321, 1460..1625, 2047..2188		

Seq. No.	21026	Seq. ID	OJ990707_14.0125.C13
Gene No.	43900	Strand	-
Start	1	End	1861
Name	OJ990707_14.0125.C13.o1.np	Method	AAT/NAP
Start	1	End	1861
GI	6630696	Score	2794
Exons	1..1861		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	21026	Seq. ID	OJ990707_14.0125.C13
Gene No.	43900	Strand	-
Start	1	End	1861
Name	OJ990707_14.0125.C13.o3.ts	Method	TBLASTX:Soybean
Start	1	End	333
GI	none	Score	55
Exons	1..189, 59..190, 214..333		

Seq. No.	21026	Seq. ID	OJ990707_14.0125.C13
Gene No.	43900	Strand	-
Start	1	End	1861
Name	OJ990707_14.0125.C13.o2.tw	Method	TBLASTX:Wheat
Start	1	End	327
GI	none	Score	216
Exons	1..231, 1..231, 26..232, 59..238, 253..327, 254..322		

Seq. No.	21026	Seq. ID	OJ990707_14.0125.C13
Gene No.	43900	Strand	-
Start	1	End	1861
Name	OJ990707_14.0125.C13.o1.tm	Method	TBLASTX:Maize
Start	183	End	531
GI	none	Score	82
Exons	183..425, 184..531, 185..493		

Seq. No.	21026	Seq. ID	OJ990707_14.0125.C13
Gene No.	43900	Strand	-
Start	1	End	1861
Name	OJ990707_14.0125.C13.o3.tw	Method	TBLASTX:Wheat
Start	328	End	1084
GI	none	Score	74
Exons	328..381, 406..522, 535..741, 869..1084, 903..1067		

Seq. No.	21026	Seq. ID	OJ990707_14.0125.C13
Gene No.	43900	Strand	-
Start	1	End	1861
Name	OJ990707_14.0125.C13.o1.ts	Method	TBLASTX:Soybean
Start	334	End	682
GI	none	Score	69
Exons	334..519, 335..517, 520..681, 635..682		

Seq. No.	21026	Seq. ID	OJ990707_14.0125.C13
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Gene No.	43900	Strand	-
Start	1	End	1861
Name	OJ990707_14.0125.C13.o1.gs	Method	GENSCAN
Start	388	End	1694
GI	none	Score	.68
Exons	388..780, 845..1122, 1637..1694		

Seq. No.	21026	Seq. ID	OJ990707_14.0125.C13
Gene No.	43900	Strand	-
Start	1	End	1861
Name	OJ990707_14.0125.C13.o2.tm	Method	TBLASTX:Maize
Start	616	End	1085
GI	none	Score	93
Exons	616..798, 869..1084, 906..1085		

Seq. No.	21026	Seq. ID	OJ990707_14.0125.C13
Gene No.	43900	Strand	-
Start	1	End	1861
Name	OJ990707_14.0125.C13.o2.ts	Method	TBLASTX:Soybean
Start	869	End	1204
GI	5509260	Score	92
Exons	869..931, 963..1124, 971..1204		
GI Descrip.	-		

Seq. No.	21026	Seq. ID	OJ990707_14.0125.C13
Gene No.	43900	Strand	-
Start	1	End	1861
Name	OJ990707_14.0125.C13.o1.tc	Method	TBLASTX:Cress
Start	875	End	1126
GI	none	Score	103
Exons	875..1126, 954..1124		

Seq. No.	21026	Seq. ID	OJ990707_14.0125.C13
Gene No.	43900	Strand	-
Start	1	End	1861
Name	OJ990707_14.0125.C13.o1.tw	Method	TBLASTX:Wheat
Start	1139	End	1861
GI	none	Score	116
Exons	1139..1330, 1139..1747, 1143..1394, 1378..1749, 1382..1672, 1425..1772, 1428..1748, 1691..1750, 1752..1859, 1765..1860, 1766..1861		

Seq. No.	21027	Seq. ID	OJ990707_14.0125.C15
Gene No.	43901	Strand	+
Start	1	End	205
Name	OJ990707_14.0125.C15.o1.gp	Method	AAT/GAP
Start	1	End	205
GI	61605_3.R1084	Score	273
Exons	1..205		
GI Descrip.	'1402920/emb CAA66965  2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	21027	Seq. ID	OJ990707_14.0125.C15
Gene No.	43902	Strand	+
Start	263	End	1107
Name	OJ990707_14.0125.C15.o1.gs	Method	GENSCAN
Start	263	End	935

GI	none	Score	.45
Exons	263..351, 707..935		
Seq. No.	21027	Seq. ID	OJ990707_14.0125.C15
Gene No.	43902	Strand	+
Start	263	End	1107
Name	OJ990707_14.0125.C15.o1.np	Method	AAT/NAP
Start	347	End	1107
GI	5042447	Score	329
Exons	347..410, 707..1107		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	21027	Seq. ID	OJ990707_14.0125.C15
Gene No.	43902	Strand	+
Start	263	End	1107
Name	OJ990707_14.0125.C15.o1.tw	Method	TBLASTX:Wheat
Start	853	End	1085
GI	none	Score	185
Exons	853..1044, 854..1045, 872..1045, 906..1085		

Seq. No.	21028	Seq. ID	OJ990707_14.0125.C16
Gene No.	43903	Strand	+
Start	668	End	6312
Name	OJ990707_14.0125.C16.o1.np	Method	AAT/NAP
Start	668	End	6312
GI	6498441	Score	6756
Exons	668..1731, 2062..2523, 2587..2960, 3144..3278, 3453..3693, 3886..4368, 4540..5937, 6031..6312		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	21028	Seq. ID	OJ990707_14.0125.C16
Gene No.	43904	Strand	+
Start	13850	End	17001
Name	OJ990707_14.0125.C16.o4.np	Method	AAT/NAP
Start	13850	End	17001
GI	6691191	Score	92
Exons	13850..13994, 16972..17001		
GI Descrip.	(AC007534) F7F22.15 [Arabidopsis thaliana]		

Seq. No.	21028	Seq. ID	OJ990707_14.0125.C16
Gene No.	43904	Strand	+
Start	13850	End	17001
Name	OJ990707_14.0125.C16.o5.np	Method	AAT/NAP
Start	16034	End	16311
GI	6630696	Score	388
Exons	16034..16311		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	21028	Seq. ID	OJ990707_14.0125.C16
Gene No.	43905	Strand	+
Start	16933	End	17001
Name	OJ990707_14.0125.C16.o1.gp	Method	AAT/GAP
Start	16933	End	17001

GI 2312818 Score 93  
 Exons 16933..17001  
 GI Descrip. 5852170/emb|AL117265.1|OST17804 2.0e-27 Oryza sativa  
 indica(GLA4) genomic DNA, chromosome 4, BAC clone:tl17804

Seq. No. 21028 Seq. ID OJ990707\_14.0125.C16  
 Gene No. 43906 Strand -  
 Start 6935 End 11921  
 Name OJ990707\_14.0125.C16.o2.np Method AAT/NAP  
 Start 6935 End 10240  
 GI 6907089 Score 4266  
 Exons 6935..8879, 8979..10240  
 GI Descrip. (AP001129) hypothetical protein [Oryza sativa]

Seq. No. 21028 Seq. ID OJ990707\_14.0125.C16  
 Gene No. 43906 Strand -  
 Start 6935 End 11921  
 Name OJ990707\_14.0125.C16.o3.np Method AAT/NAP  
 Start 9475 End 11921  
 GI 5922623 Score 269  
 Exons 9475..9496, 11082..11157, 11325..11483, 11841..11921  
 GI Descrip. (AP000492) hypothetical protein [Oryza sativa]  
 gi|6016856|dbj|BAA85199.1| (AP000570) hypothetical protein  
 [Oryza sativa]

Seq. No. 21028 Seq. ID OJ990707\_14.0125.C16  
 Gene No. 43907 Strand -  
 Start 13815 End 15136  
 Name OJ990707\_14.0125.C16.o6.tw Method TBLASTX:Wheat  
 Start 816 End 1208  
 GI none Score 58  
 Exons 816..863, 870..968, 887..967, 935..1096, 951..1208

Seq. No. 21028 Seq. ID OJ990707\_14.0125.C16  
 Gene No. 43907 Strand -  
 Start 13815 End 15136  
 Name OJ990707\_14.0125.C16.o5.tm Method TBLASTX:Maize  
 Start 821 End 1106  
 GI none Score 184  
 Exons 821..1105, 858..1106

Seq. No. 21028 Seq. ID OJ990707\_14.0125.C16  
 Gene No. 43907 Strand -  
 Start 13815 End 15136  
 Name OJ990707\_14.0125.C16.o4.tw Method TBLASTX:Wheat  
 Start 1216 End 4674  
 GI none Score 234  
 Exons 1216..1269, 4213..4464, 4240..4464, 4305..4478, 4525..4674,  
 4534..4671, 4536..4673

Seq. No. 21028 Seq. ID OJ990707\_14.0125.C16  
 Gene No. 43907 Strand -  
 Start 13815 End 15136  
 Name OJ990707\_14.0125.C16.o5.tw Method TBLASTX:Wheat  
 Start 1946 End 10108  
 GI none Score 168  
 Exons 1946..2119, 1947..2192, 2192..2236, 2233..2373, 2238..2399,

2239..2427, 10004..10108

Seq. No.	21028	Seq. ID	OJ990707_14.0125.C16
Gene No.	43907	Strand	-
Start	13815	End	15136
Name	OJ990707_14.0125.C16.o1.tw	Method	TBLASTX:Wheat
Start	2594	End	3057
GI	none	Score	211
Exons	2594..3037, 2595..3056, 2596..3057		

Seq. No.	21028	Seq. ID	OJ990707_14.0125.C16
Gene No.	43907	Strand	-
Start	13815	End	15136
Name	OJ990707_14.0125.C16.o3.ts	Method	TBLASTX:Soybean
Start	2635	End	13991
GI	none	Score	116
Exons	2635..2859, 2866..3000, 13847..13930, 13899..13991		

Seq. No.	21028	Seq. ID	OJ990707_14.0125.C16
Gene No.	43907	Strand	-
Start	13815	End	15136
Name	OJ990707_14.0125.C16.o1.tm	Method	TBLASTX:Maize
Start	2725	End	3081
GI	none	Score	379
Exons	2725..3081, 2760..3071, 2776..3081		

Seq. No.	21028	Seq. ID	OJ990707_14.0125.C16
Gene No.	43907	Strand	-
Start	13815	End	15136
Name	OJ990707_14.0125.C16.o3.tm	Method	TBLASTX:Maize
Start	3108	End	3492
GI	none	Score	360
Exons	3108..3473, 3109..3492		

Seq. No.	21028	Seq. ID	OJ990707_14.0125.C16
Gene No.	43907	Strand	-
Start	13815	End	15136
Name	OJ990707_14.0125.C16.o2.tw	Method	TBLASTX:Wheat
Start	3165	End	3590
GI	none	Score	487
Exons	3165..3590, 3166..3585		

Seq. No.	21028	Seq. ID	OJ990707_14.0125.C16
Gene No.	43907	Strand	-
Start	13815	End	15136
Name	OJ990707_14.0125.C16.o1.ts	Method	TBLASTX:Soybean
Start	3244	End	3615
GI	none	Score	279
Exons	3244..3615, 3261..3404		

Seq. No.	21028	Seq. ID	OJ990707_14.0125.C16
Gene No.	43907	Strand	-
Start	13815	End	15136
Name	OJ990707_14.0125.C16.o2.ts	Method	TBLASTX:Soybean
Start	4363	End	4929
GI	5666795	Score	68
Exons	4363..4461, 4537..4674, 4729..4929		



GI Descrip. 4206306 2.0e-10 (AF049110) prpol [Zea mays]

Seq. No.	21028	Seq. ID	OJ990707_14.0125.C16
Gene No.	43907	Strand	-
Start	13815	End	15136
Name	OJ990707_14.0125.C16.o9.tw	Method	TBLASTX:Wheat
Start	4677	End	4989
GI	none	Score	192
Exons	4677..4853, 4729..4989		

Seq. No.	21028	Seq. ID	OJ990707_14.0125.C16
Gene No.	43907	Strand	-
Start	13815	End	15136
Name	OJ990707_14.0125.C16.o2.tm	Method	TBLASTX:Maize
Start	5182	End	5505
GI	none	Score	362
Exons	5182..5505, 5211..5492		

Seq. No.	21028	Seq. ID	OJ990707_14.0125.C16
Gene No.	43907	Strand	-
Start	13815	End	15136
Name	OJ990707_14.0125.C16.o3.tw	Method	TBLASTX:Wheat
Start	5319	End	5700
GI	none	Score	378
Exons	5319..5375, 5320..5700, 5421..5669		

Seq. No.	21028	Seq. ID	OJ990707_14.0125.C16
Gene No.	43907	Strand	-
Start	13815	End	15136
Name	OJ990707_14.0125.C16.o8.tw	Method	TBLASTX:Wheat
Start	5701	End	6303
GI	none	Score	265
Exons	5701..5985, 5706..5984, 6177..6299, 6178..6303		

Seq. No.	21028	Seq. ID	OJ990707_14.0125.C16
Gene No.	43907	Strand	-
Start	13815	End	15136
Name	OJ990707_14.0125.C16.o4.tm	Method	TBLASTX:Maize
Start	6172	End	6353
GI	none	Score	192
Exons	6172..6339, 6177..6353		

Seq. No.	21028	Seq. ID	OJ990707_14.0125.C16
Gene No.	43907	Strand	-
Start	13815	End	15136
Name	OJ990707_14.0125.C16.o3.gs	Method	GENSCAN
Start	13815	End	15136
GI	none	Score	.94
Exons	13815..13823, 13937..14059, 15074..15136		

Seq. No.	21028	Seq. ID	OJ990707_14.0125.C16
Gene No.	43908	Strand	-
Start	15950	End	16324
Name	OJ990707_14.0125.C16.o7.tw	Method	TBLASTX:Wheat
Start	15950	End	16324
GI	none	Score	96
Exons	15950..16060, 16040..16177, 16188..16310, 16190..16324,		

16190..16306

Seq. No.	21029	Seq. ID	OJ990707_14.0125.C17
Gene No.	43909	Strand	+
Start	1	End	695
Name	OJ990707_14.0125.C17.o1.gp	Method	AAT/GAP
Start	1	End	695
GI	101153_1.R1084	Score	613
Exons	1..153, 471..695		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-115 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	21029	Seq. ID	OJ990707_14.0125.C17
Gene No.	43909	Strand	+
Start	1	End	695
Name	OJ990707_14.0125.C17.o1.gs	Method	GENSCAN
Start	113	End	572
GI	none	Score	.51
Exons	113..248, 471..572		

Seq. No.	21029	Seq. ID	OJ990707_14.0125.C17
Gene No.	43910	Strand	-
Start	1	End	306
Name	OJ990707_14.0125.C17.o1.np	Method	AAT/NAP
Start	1	End	306
GI	5852180	Score	195
Exons	1..306		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	21030	Seq. ID	OJ990707_14.0125.C18
Gene No.	43911	Strand	+
Start	196	End	327
Name	OJ990707_14.0125.C18.o1.gs	Method	GENSCAN
Start	196	End	327
GI	none	Score	.86
Exons	196..327		

Seq. No.	21030	Seq. ID	OJ990707_14.0125.C18
Gene No.	43912	Strand	-
Start	1	End	637
Name	OJ990707_14.0125.C18.o1.np	Method	AAT/NAP
Start	1	End	637
GI	6630696	Score	1008
Exons	1..637		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	21030	Seq. ID	OJ990707_14.0125.C18
Gene No.	43912	Strand	-
Start	1	End	637
Name	OJ990707_14.0125.C18.o1.tw	Method	TBLASTX:Wheat
Start	2	End	167
GI	none	Score	194
Exons	2..166, 3..167		

Seq. No.	21030	Seq. ID	OJ990707_14.0125.C18
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Gene No.	43912	Strand	-
Start	1	End	637
Name	OJ990707_14.0125.C18.ol.tm	Method	TBLASTX:Maize
Start	362	End	637
GI	none	Score	127
Exons	362..427, 419..637, 458..634, 474..635		
Seq. No.	21031	Seq. ID	OJ990707_14.0125.C19
Gene No.	43913	Strand	+
Start	307	End	449
Name	OJ990707_14.0125.C19.ol.gs	Method	GENSCAN
Start	307	End	449
GI	none	Score	.63
Exons	307..449		
Seq. No.	21032	Seq. ID	OJ990907_11.0103.C2
Gene No.	43914	Strand	+
Start	257	End	6380
Name	OJ990907_11.0103.C2.ol.gs	Method	GENSCAN
Start	257	End	6280
GI	none	Score	.59
Exons	257..441, 1561..1673, 2940..2992, 3141..3353, 3516..3560, 3989..4066, 4190..4576, 4639..4673, 6007..6280		
Seq. No.	21032	Seq. ID	OJ990907_11.0103.C2
Gene No.	43914	Strand	+
Start	257	End	6380
Name	OJ990907_11.0103.C2.ol.np	Method	AAT/NAP
Start	2869	End	6380
GI	6579203	Score	504
Exons	2869..2977, 3063..3296, 3716..3799, 3972..4066, 4256..4576, 6041..6380		
GI Descrip.	(AC011438) T23G18.19 [Arabidopsis thaliana]		
Seq. No.	21032	Seq. ID	OJ990907_11.0103.C2
Gene No.	43914	Strand	+
Start	257	End	6380
Name	OJ990907_11.0103.C2.ol.tc	Method	TBLASTX:Cress
Start	3715	End	6292
GI	none	Score	97
Exons	3715..3804, 3977..4066, 4306..4347, 4307..4600, 4444..4578, 6029..6208, 6193..6279, 6194..6292		
Seq. No.	21032	Seq. ID	OJ990907_11.0103.C2
Gene No.	43914	Strand	+
Start	257	End	6380
Name	OJ990907_11.0103.C2.ol.tw	Method	TBLASTX:Wheat
Start	3730	End	4555
GI	none	Score	69
Exons	3730..3804, 3977..4066, 4306..4353, 4307..4555, 4435..4554		
Seq. No.	21032	Seq. ID	OJ990907_11.0103.C2
Gene No.	43914	Strand	+
Start	257	End	6380
Name	OJ990907_11.0103.C2.ol.ts	Method	TBLASTX:Soybean
Start	3977	End	4572
GI	none	Score	96

Exons 3977..4066, 4297..4572, 4307..4570

Seq. No.	21032	Seq. ID	OJ990907_11.0103.C2
Gene No.	43914	Strand	+
Start	257	End	6380
Name	OJ990907_11.0103.C2.o1.tm	Method	TBLASTX:Maize
Start	4297	End	6112
GI	none	Score	448
Exons	4297..4350, 4307..4579, 4426..4575, 6028..6093, 6029..6112		

Seq. No.	21032	Seq. ID	OJ990907_11.0103.C2
Gene No.	43914	Strand	+
Start	257	End	6380
Name	OJ990907_11.0103.C2.o2.ts	Method	TBLASTX:Soybean
Start	6029	End	6313
GI	none	Score	308
Exons	6029..6313, 6058..6093, 6160..6282, 6185..6301		

Seq. No.	21033	Seq. ID	OJ990907_11.0103.C3
Gene No.	43915	Strand	+
Start	1641	End	1784
Name	OJ990907_11.0103.C3.o1.np	Method	AAT/NAP
Start	1641	End	1784
GI	6288682	Score	146
Exons	1641..1784		
GI Descrip.	(AF031487) bZIP transcription factor [Nicotiana tabacum]		

Seq. No.	21033	Seq. ID	OJ990907_11.0103.C3
Gene No.	43916	Strand	+
Start	3137	End	7155
Name	OJ990907_11.0103.C3.o1.gs	Method	GENSCAN
Start	3137	End	6728
GI	none	Score	.85
Exons	3137..3604, 4009..4218, 5393..5536, 6212..6304, 6675..6728		

Seq. No.	21033	Seq. ID	OJ990907_11.0103.C3
Gene No.	43916	Strand	+
Start	3137	End	7155
Name	OJ990907_11.0103.C3.o2.np	Method	AAT/NAP
Start	5186	End	7108
GI	3874039	Score	276
Exons	5186..5317, 5393..5536, 6212..6304, 6947..7108		
GI Descrip.	(Z75526) Weak similarity to Staphyloccus autolysin gene (TR:G765072); cDNA EST EMBL:M89336 comes from this gene; cDNA EST yk505d12.3 comes from this gene [Caenorhabditis elegans]		

Seq. No.	21033	Seq. ID	OJ990907_11.0103.C3
Gene No.	43916	Strand	+
Start	3137	End	7155
Name	OJ990907_11.0103.C3.o1.gp	Method	AAT/GAP
Start	5383	End	7155
GI	LIB3433-041-P1-K1-A6	Score	810
Exons	5383..5536, 6212..6304, 6947..7155		
GI Descrip.	'2144166/pir  JC5137 6.0e-19 beta-glucosidase (EC 3.2.1.21) - Bifidobacterium breve >gi_1769814_dbj_BAA19881_ (D88311) beta-D-glucosidase [Bifidobacterium breve]'		

Seq. No.	21033	Seq. ID	OJ990907_11.0103.C3
Gene No.	43917	Strand	-
Start	6931	End	7715
Name	OJ990907_11.0103.C3.o2.tm	Method	TBLASTX:Maize
Start	3208	End	3605
GI	none	Score	217
Exons	3208..3381, 3209..3382, 3329..3391, 3416..3490, 3443..3508, 3560..3604, 3561..3605		

Seq. No.	21033	Seq. ID	OJ990907_11.0103.C3
Gene No.	43917	Strand	-
Start	6931	End	7715
Name	OJ990907_11.0103.C3.o1.tm	Method	TBLASTX:Maize
Start	3997	End	7009
GI	none	Score	171
Exons	3997..4218, 4008..4220, 4010..4180, 4018..4221, 5181..5321, 5183..5332, 5185..5328, 5390..5539, 5390..5539, 6206..6310, 6210..6305, 6212..6307, 6944..7009, 6946..7008		

Seq. No.	21033	Seq. ID	OJ990907_11.0103.C3
Gene No.	43917	Strand	-
Start	6931	End	7715
Name	OJ990907_11.0103.C3.o1.tw	Method	TBLASTX:Wheat
Start	4053	End	5529
GI	none	Score	196
Exons	4053..4220, 4056..4196, 4057..4221, 5178..5327, 5183..5329, 5185..5328, 5385..5486, 5390..5488, 5390..5485, 5486..5527, 5488..5529, 5489..5527		

Seq. No.	21033	Seq. ID	OJ990907_11.0103.C3
Gene No.	43917	Strand	-
Start	6931	End	7715
Name	OJ990907_11.0103.C3.o1.tc	Method	TBLASTX:Cress
Start	6208	End	7105
GI	none	Score	101
Exons	6208..6342, 6212..6307, 6411..6440, 6946..7104, 6947..7105, 6956..7105		

Seq. No.	21033	Seq. ID	OJ990907_11.0103.C3
Gene No.	43917	Strand	-
Start	6931	End	7715
Name	OJ990907_11.0103.C3.o2.gs	Method	GENSCAN
Start	6931	End	7715
GI	none	Score	.7
Exons	6931..7008, 7122..7241, 7326..7501, 7556..7715		

Seq. No.	21034	Seq. ID	OJ990907_11.0103.C4
Gene No.	43918	Strand	+
Start	217	End	537
Name	OJ990907_11.0103.C4.o1.gs	Method	GENSCAN
Start	217	End	537
GI	none	Score	.41
Exons	217..537		

Seq. No.	21035	Seq. ID	OJ990907_11.0103.C7
Gene No.	43919	Strand	+
Start	2047	End	7091

Name	OJ990907_11.0103.C7.o1.np	Method	AAT/NAP
Start	2047	End	7091
GI	4586112	Score	961
Exons	2047..2091, 2912..3197, 3252..3347, 4421..4792, 4960..5187, 5287..5552, 7032..7091		

GI Descrip. (AL049638) putative protein [Arabidopsis thaliana]

Seq. No.	21035	Seq. ID	OJ990907_11.0103.C7
Gene No.	43919	Strand	+
Start	2047	End	7091
Name	OJ990907_11.0103.C7.o1.gs	Method	GENSCAN
Start	2561	End	5736
GI	none	Score	.63
Exons	2561..3347, 4656..4792, 4960..5187, 5287..5736		

Seq. No.	21035	Seq. ID	OJ990907_11.0103.C7
Gene No.	43920	Strand	-
Start	6003	End	8560
Name	OJ990907_11.0103.C7.o1.gp	Method	AAT/GAP
Start	6003	End	6419
GI	3759631	Score	794
Exons	6003..6419		

Seq. No.	21035	Seq. ID	OJ990907_11.0103.C7
Gene No.	43920	Strand	-
Start	6003	End	8560
Name	OJ990907_11.0103.C7.o2.gs	Method	GENSCAN
Start	6145	End	8560
GI	none	Score	.66
Exons	6145..6666, 6759..7685, 8264..8560		

Seq. No.	21035	Seq. ID	OJ990907_11.0103.C7
Gene No.	43920	Strand	-
Start	6003	End	8560
Name	OJ990907_11.0103.C7.o2.gp	Method	AAT/GAP
Start	7355	End	7706
GI	2310627	Score	656
Exons	7355..7706		

Seq. No.	21035	Seq. ID	OJ990907_11.0103.C7
Gene No.	43921	Strand	-
Start	9342	End	10961
Name	OJ990907_11.0103.C7.o4.ts	Method	TBLASTX:Soybean
Start	4505	End	5048
GI	none	Score	312
Exons	4505..4795, 4513..4791, 4957..5043, 4959..5048, 4959..5045		

Seq. No.	21035	Seq. ID	OJ990907_11.0103.C7
Gene No.	43921	Strand	-
Start	9342	End	10961
Name	OJ990907_11.0103.C7.o1.tm	Method	TBLASTX:Maize
Start	4742	End	5450
GI	none	Score	73
Exons	4742..4795, 4747..4791, 4957..5187, 4959..5180, 5002..5199, 5284..5379, 5286..5366, 5385..5450, 5386..5448		

Seq. No.	21035	Seq. ID	OJ990907_11.0103.C7
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Gene No.	43921	Strand	-
Start	9342	End	10961
Name	OJ990907_11.0103.C7.o2.ts	Method	TBLASTX:Soybean
Start	5095	End	5556
GI	none	Score	100
Exons	5095..5187, 5284..5331, 5310..5507, 5311..5556		

Seq. No.	21035	Seq. ID	OJ990907_11.0103.C7
Gene No.	43921	Strand	-
Start	9342	End	10961
Name	OJ990907_11.0103.C7.o3.ts	Method	TBLASTX:Soybean
Start	6136	End	6405
GI	none	Score	61
Exons	6136..6213, 6154..6405, 6158..6403		

Seq. No.	21035	Seq. ID	OJ990907_11.0103.C7
Gene No.	43921	Strand	-
Start	9342	End	10961
Name	OJ990907_11.0103.C7.o3.tm	Method	TBLASTX:Maize
Start	6154	End	6348
GI	none	Score	80
Exons	6154..6216, 6155..6217, 6230..6346, 6235..6348		

Seq. No.	21035	Seq. ID	OJ990907_11.0103.C7
Gene No.	43921	Strand	-
Start	9342	End	10961
Name	OJ990907_11.0103.C7.o2.tm	Method	TBLASTX:Maize
Start	6349	End	6588
GI	none	Score	108
Exons	6349..6429, 6350..6415, 6416..6586, 6418..6588		

Seq. No.	21035	Seq. ID	OJ990907_11.0103.C7
Gene No.	43921	Strand	-
Start	9342	End	10961
Name	OJ990907_11.0103.C7.o1.ts	Method	TBLASTX:Soybean
Start	6690	End	7214
GI	none	Score	89
Exons	6690..6854, 6696..6854, 6706..6855, 6943..7188, 6945..7166, 7180..7209, 7191..7214		

Seq. No.	21035	Seq. ID	OJ990907_11.0103.C7
Gene No.	43921	Strand	-
Start	9342	End	10961
Name	OJ990907_11.0103.C7.o3.gs	Method	GENSCAN
Start	9342	End	10961
GI	none	Score	.85
Exons	9342..9626, 10959..10961		

Seq. No.	21036	Seq. ID	OJ990907_11.0103.C10
Gene No.	43922	Strand	-
Start	1071	End	7183
Name	OJ990907_11.0103.C10.o1.gs	Method	GENSCAN
Start	1071	End	7183
GI	none	Score	.47
Exons	1071..1183, 1510..1600, 1714..1758, 4302..4402, 4633..4748, 4791..4924, 5372..5470, 5720..5822, 6474..7183		

Seq. No.	21036	Seq. ID	OJ990907_11.0103.C10
Gene No.	43923	Strand	-
Start	7676	End	10589
Name	OJ990907_11.0103.C10.o1.np	Method	AAT/NAP
Start	7511	End	10561
GI	5931788	Score	786
Exons	7511..8358, 8445..8581, 10440..10561		
GI Descrip.	(AJ011619) SBP-domain protein 6 [Zea mays]		

Seq. No.	21036	Seq. ID	OJ990907_11.0103.C10
Gene No.	43923	Strand	-
Start	7676	End	10589
Name	OJ990907_11.0103.C10.o2.gs	Method	GENSCAN
Start	7676	End	10507
GI	none	Score	.93
Exons	7676..8044, 8107..8207, 8445..8581, 10440..10507		

Seq. No.	21036	Seq. ID	OJ990907_11.0103.C10
Gene No.	43923	Strand	-
Start	7676	End	10589
Name	OJ990907_11.0103.C10.o2.tm	Method	TBLASTX:Maize
Start	7694	End	8163
GI	none	Score	45
Exons	7694..7816, 7745..7810, 7805..8020, 7816..7878, 7827..7976, 7972..8019, 7996..8025, 8000..8128, 8009..8122, 8019..8129, 8019..8147, 8029..8163		

Seq. No.	21036	Seq. ID	OJ990907_11.0103.C10
Gene No.	43923	Strand	-
Start	7676	End	10589
Name	OJ990907_11.0103.C10.o1.tm	Method	TBLASTX:Maize
Start	8225	End	8585
GI	none	Score	43
Exons	8225..8266, 8226..8267, 8257..8352, 8273..8362, 8277..8360, 8283..8399, 8418..8582, 8419..8583, 8448..8585, 8452..8583		

Seq. No.	21036	Seq. ID	OJ990907_11.0103.C10
Gene No.	43923	Strand	-
Start	7676	End	10589
Name	OJ990907_11.0103.C10.o3.tm	Method	TBLASTX:Maize
Start	10439	End	10589
GI	none	Score	141
Exons	10439..10534, 10440..10532, 10529..10588, 10536..10589		

Seq. No.	21037	Seq. ID	OJ990907_11.0103.C11
Gene No.	43924	Strand	-
Start	12	End	188
Name	OJ990907_11.0103.C11.o1.gs	Method	GENSCAN
Start	12	End	188
GI	none	Score	.49
Exons	12..188		

Seq. No.	21037	Seq. ID	OJ990907_11.0103.C11
Gene No.	43925	Strand	-
Start	1436	End	7963
Name	OJ990907_11.0103.C11.o2.gs	Method	GENSCAN
Start	1436	End	7963



GI	none	Score	.63
Exons	1436..1763, 3764..3786, 4629..5014, 7643..7963		

Seq. No.	21038	Seq. ID	OJ990907_11.0103.C12
Gene No.	43926	Strand	+
Start	54	End	3835
Name	OJ990907_11.0103.C12.o1.gs	Method	GENSCAN
Start	54	End	3835
GI	none	Score	.64
Exons	54..204, 1436..1446, 1571..1699, 3175..3291, 3366..3410, 3459..3576, 3819..3835		

Seq. No.	21038	Seq. ID	OJ990907_11.0103.C12
Gene No.	43927	Strand	+
Start	5916	End	11908
Name	OJ990907_11.0103.C12.o1.np	Method	AAT/NAP
Start	5916	End	11908
GI	6069653	Score	472
Exons	5916..6011, 8102..8932, 8958..9167, 9194..9959, 11797..11908		
GI Descrip.	(AP000616) hypothetical protein [Oryza sativa]		

Seq. No.	21038	Seq. ID	OJ990907_11.0103.C12
Gene No.	43928	Strand	+
Start	13709	End	14369
Name	OJ990907_11.0103.C12.o4.gs	Method	GENSCAN
Start	13709	End	14369
GI	none	Score	.89
Exons	13709..13731, 14168..14369		

Seq. No.	21038	Seq. ID	OJ990907_11.0103.C12
Gene No.	43929	Strand	-
Start	4291	End	10561
Name	OJ990907_11.0103.C12.o2.gs	Method	GENSCAN
Start	4291	End	10561
GI	none	Score	.64
Exons	4291..4784, 5813..5958, 6129..6223, 6568..6690, 7350..7504, 7705..7756, 8283..8847, 9123..9226, 9317..9559, 10490..10561		

Seq. No.	21038	Seq. ID	OJ990907_11.0103.C12
Gene No.	43929	Strand	-
Start	4291	End	10561
Name	OJ990907_11.0103.C12.o1.gp	Method	AAT/GAP
Start	6446	End	6872
GI	4878407	Score	660
Exons	6446..6872		
GI Descrip.	6069643/dbj AP000616.1 AP000616 1.0e-152 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12		

Seq. No.	21038	Seq. ID	OJ990907_11.0103.C12
Gene No.	43930	Strand	-
Start	11633	End	12175
Name	OJ990907_11.0103.C12.o2.np	Method	AAT/NAP
Start	11630	End	12172
GI	2673910	Score	158
Exons	11630..11824, 11906..12172		
GI Descrip.	(AC002561) unknown protein [Arabidopsis thaliana]		

Seq. No.	21038	Seq. ID	OJ990907_11.0103.C12
Gene No.	43930	Strand	-
Start	11633	End	12175
Name	OJ990907_11.0103.C12.o3.gs	Method	GENSCAN
Start	11633	End	12175
GI	none	Score	.96
Exons	11633..12175		
Seq. No.	21039	Seq. ID	OJ990907_11.0103.C13
Gene No.	43931	Strand	+
Start	4	End	335
Name	OJ990907_11.0103.C13.o1.gs	Method	GENSCAN
Start	4	End	335
GI	none	Score	.66
Exons	4..206, 308..335		
Seq. No.	21039	Seq. ID	OJ990907_11.0103.C13
Gene No.	43932	Strand	+
Start	535	End	1423
Name	OJ990907_11.0103.C13.o2.gs	Method	GENSCAN
Start	535	End	1423
GI	none	Score	.4
Exons	535..601, 743..835, 1013..1047, 1391..1423		
Seq. No.	21039	Seq. ID	OJ990907_11.0103.C13
Gene No.	43933	Strand	+
Start	3965	End	4561
Name	OJ990907_11.0103.C13.o1.gp	Method	AAT/GAP
Start	3965	End	4561
GI	uC-osrocyp003c06a1	Score	316
Exons	3965..3992, 4109..4172, 4470..4561		
GI Descrip.	'6069643/dbj AP000616.1 AP000616 1.0e-152 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		
Seq. No.	21039	Seq. ID	OJ990907_11.0103.C13
Gene No.	43934	Strand	+
Start	11002	End	14825
Name	OJ990907_11.0103.C13.o3.np	Method	AAT/NAP
Start	11002	End	14825
GI	5430752	Score	96
Exons	11002..11067, 12815..13191, 14803..14825		
GI Descrip.	(AC007504) Hypothetical Protein [Arabidopsis thaliana]		
Seq. No.	21039	Seq. ID	OJ990907_11.0103.C13
Gene No.	43935	Strand	-
Start	2471	End	3499
Name	OJ990907_11.0103.C13.o3.gs	Method	GENSCAN
Start	2471	End	3499
GI	none	Score	.97
Exons	2471..3499		
Seq. No.	21039	Seq. ID	OJ990907_11.0103.C13
Gene No.	43935	Strand	-
Start	2471	End	3499
Name	OJ990907_11.0103.C13.o1.np	Method	AAT/NAP
Start	2486	End	3473
GI	1143381	Score	465

Exons 2486..3473  
 GI Descrip. (Z49063) polygalacturonase inhibitor [Actinidia deliciosa]

Seq. No.	21039	Seq. ID	OJ990907_11.0103.C13
Gene No.	43936	Strand	-
Start	4262	End	4806
Name	OJ990907_11.0103.C13.o2.gp	Method	AAT/GAP
Start	4262	End	4806
GI	uC-osrocyp003c06a1	Score	529
Exons	4262..4284, 4468..4806		
GI Descrip.	'6069643/dbj AP000616.1 AP000616 1.0e-152 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	21039	Seq. ID	OJ990907_11.0103.C13
Gene No.	43937	Strand	-
Start	5655	End	8532
Name	OJ990907_11.0103.C13.o4.gs	Method	GENSCAN
Start	5655	End	8532
GI	none	Score	.73
Exons	5655..5739, 6112..6786, 6800..6912, 7474..7954, 8132..8532		

Seq. No.	21039	Seq. ID	OJ990907_11.0103.C13
Gene No.	43937	Strand	-
Start	5655	End	8532
Name	OJ990907_11.0103.C13.o3.gp	Method	AAT/GAP
Start	7751	End	8452
GI	uC-osroM202023g10b1	Score	1010
Exons	7751..7954, 8132..8452		
GI Descrip.	'2673907 4.0e-09 (AC002561) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	21039	Seq. ID	OJ990907_11.0103.C13
Gene No.	43938	Strand	-
Start	10047	End	11150
Name	OJ990907_11.0103.C13.o4.gp	Method	AAT/GAP
Start	9725	End	10615
GI	17145_1.R1084	Score	1720
Exons	9725..10615		
GI Descrip.	'6069643/dbj AP000616.1 AP000616 1.0e-152 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	21039	Seq. ID	OJ990907_11.0103.C13
Gene No.	43938	Strand	-
Start	10047	End	11150
Name	OJ990907_11.0103.C13.o2.np	Method	AAT/NAP
Start	10027	End	11150
GI	6729542	Score	423
Exons	10027..11150		
GI Descrip.	(AL132977) putative protein [Arabidopsis thaliana]		

Seq. No.	21039	Seq. ID	OJ990907_11.0103.C13
Gene No.	43938	Strand	-
Start	10047	End	11150
Name	OJ990907_11.0103.C13.o5.gs	Method	GENSCAN
Start	10047	End	11150
GI	none	Score	.99
Exons	10047..11150		

Seq. No.	21039	Seq. ID	OJ990907_11.0103.C13
Gene No.	43939	Strand	-
Start	12759	End	17104
Name	OJ990907_11.0103.C13.o2.tm	Method	TBLASTX:Maize
Start	2483	End	3400
GI	none	Score	52
Exons	2483..2617, 2484..2582, 2570..2686, 2630..2779, 2634..2777, 2648..2677, 2783..2833, 2784..2834, 2792..2824, 2792..2830, 2823..3035, 2843..2989, 2852..2959, 2915..2953, 3047..3154, 3059..3196, 3107..3214, 3296..3319, 3305..3400		

Seq. No.	21039	Seq. ID	OJ990907_11.0103.C13
Gene No.	43939	Strand	-
Start	12759	End	17104
Name	OJ990907_11.0103.C13.o1.ts	Method	TBLASTX:Soybean
Start	2489	End	3400
GI	none	Score	49
Exons	2489..2617, 2509..2544, 2621..2776, 2649..2750, 2801..2884, 2841..2876, 2966..3031, 2978..3058, 2991..3056, 3056..3166, 3059..3154, 3063..3149, 3065..3199, 3299..3400		

Seq. No.	21039	Seq. ID	OJ990907_11.0103.C13
Gene No.	43939	Strand	-
Start	12759	End	17104
Name	OJ990907_11.0103.C13.o2.tc	Method	TBLASTX:Cress
Start	2489	End	3400
GI	none	Score	111
Exons	2489..2776, 2576..2677, 2825..2911, 2843..2962, 2915..2989, 3299..3400		

Seq. No.	21039	Seq. ID	OJ990907_11.0103.C13
Gene No.	43939	Strand	-
Start	12759	End	17104
Name	OJ990907_11.0103.C13.o4.tm	Method	TBLASTX:Maize
Start	8320	End	8520
GI	none	Score	209
Exons	8320..8520, 8321..8518		

Seq. No.	21039	Seq. ID	OJ990907_11.0103.C13
Gene No.	43939	Strand	-
Start	12759	End	17104
Name	OJ990907_11.0103.C13.o1.tm	Method	TBLASTX:Maize
Start	10239	End	10646
GI	none	Score	61
Exons	10239..10379, 10240..10374, 10248..10382, 10356..10598, 10357..10611, 10362..10646		

Seq. No.	21039	Seq. ID	OJ990907_11.0103.C13
Gene No.	43939	Strand	-
Start	12759	End	17104
Name	OJ990907_11.0103.C13.o2.ts	Method	TBLASTX:Soybean
Start	10419	End	11150
GI	none	Score	90
Exons	10419..10472, 10509..10598, 10800..10823, 10861..10995, 10863..11039, 11046..11117, 11115..11150		

Seq. No.	21039	Seq. ID	OJ990907_11.0103.C13
Gene No.	43939	Strand	-
Start	12759	End	17104
Name	OJ990907_11.0103.C13.o3.tm	Method	TBLASTX:Maize
Start	10647	End	11042
GI	none	Score	73
Exons	10647..10682, 10785..10823, 10798..10977, 10813..10995, 10863..11042		

Seq. No.	21039	Seq. ID	OJ990907_11.0103.C13
Gene No.	43939	Strand	-
Start	12759	End	17104
Name	OJ990907_11.0103.C13.o1.tc	Method	TBLASTX:Cress
Start	10858	End	11151
GI	none	Score	81
Exons	10858..10995, 10863..11039, 11046..11150, 11071..11151		

Seq. No.	21039	Seq. ID	OJ990907_11.0103.C13
Gene No.	43939	Strand	-
Start	12759	End	17104
Name	OJ990907_11.0103.C13.o4.np	Method	AAT/NAP
Start	12467	End	15793
GI	2262166	Score	421
Exons	12467..12542, 14300..14436, 15614..15793		
GI Descrip.	(AC002329) unknown protein [Arabidopsis thaliana]		

Seq. No.	21039	Seq. ID	OJ990907_11.0103.C13
Gene No.	43939	Strand	-
Start	12759	End	17104
Name	OJ990907_11.0103.C13.o6.gs	Method	GENSCAN
Start	12759	End	13160
GI	none	Score	.9
Exons	12759..13160		

Seq. No.	21039	Seq. ID	OJ990907_11.0103.C13
Gene No.	43939	Strand	-
Start	12759	End	17104
Name	OJ990907_11.0103.C13.o7.gs	Method	GENSCAN
Start	13550	End	17013
GI	none	Score	.56
Exons	13550..13601, 14294..14436, 15614..16036, 16873..17013		

Seq. No.	21039	Seq. ID	OJ990907_11.0103.C13
Gene No.	43939	Strand	-
Start	12759	End	17104
Name	OJ990907_11.0103.C13.o5.tm	Method	TBLASTX:Maize
Start	14175	End	15797
GI	none	Score	46
Exons	14175..14252, 14257..14454, 14258..14437, 15614..15793, 15681..15797		

Seq. No.	21039	Seq. ID	OJ990907_11.0103.C13
Gene No.	43939	Strand	-
Start	12759	End	17104
Name	OJ990907_11.0103.C13.o3.tc	Method	TBLASTX:Cress
Start	14251	End	15794
GI	none	Score	163

Exons 14251..14457, 14255..14434, 15614..15793, 15681..15794

Seq. No.	21039	Seq. ID	OJ990907_11.0103.C13
Gene No.	43939	Strand	-
Start	12759	End	17104
Name	OJ990907_11.0103.C13.o5.gp	Method	AAT/GAP
Start	14429	End	14983
GI	none	Score	1078
Exons	14429..14983		

Seq. No.	21039	Seq. ID	OJ990907_11.0103.C13
Gene No.	43939	Strand	-
Start	12759	End	17104
Name	OJ990907_11.0103.C13.o6.gp	Method	AAT/GAP
Start	16619	End	17104
GI	none	Score	866
Exons	16619..17104		

Seq. No.	21040	Seq. ID	OJ990907_11.0103.C15
Gene No.	43940	Strand	+
Start	1651	End	1739
Name	OJ990907_11.0103.C15.o1.gp	Method	AAT/GAP
Start	1651	End	1739
GI	4880905	Score	164
Exons	1651..1739		
GI Descrip.	114974/sp P26204 BGLS_TRIRP 1.0e-37 NON-CYANOGENIC BETA-GLUCOSIDASE PRECURSOR >gi_67491_pir_GLJY31 beta-glucosidase (EC 3.2.1.21) precursor (clone TRE361) - white clover >gi_21955_emb_CAA40058.1_ (X56734) beta-glucosidase [Trifolium repens]		

Seq. No.	21041	Seq. ID	OJ990907_11.0103.C16
Gene No.	43941	Strand	+
Start	1	End	2063
Name	OJ990907_11.0103.C16.o1.gp	Method	AAT/GAP
Start	1	End	962
GI	62176_1.R1084	Score	876
Exons	1..43, 519..962		
GI Descrip.	'114974/sp P26204 BGLS_TRIRP 1.0e-37 NON-CYANOGENIC BETA-GLUCOSIDASE PRECURSOR >gi_67491_pir_GLJY31 beta-glucosidase (EC 3.2.1.21) precursor (clone TRE361) - white clover >gi_21955_emb_CAA40058.1_ (X56734) beta-glucosidase [Trifolium repens]'		

Seq. No.	21041	Seq. ID	OJ990907_11.0103.C16
Gene No.	43941	Strand	+
Start	1	End	2063
Name	OJ990907_11.0103.C16.o1.np	Method	AAT/NAP
Start	1	End	1881
GI	833835	Score	869
Exons	1..43, 519..1156, 1248..1334, 1505..1881		
GI Descrip.	(U26025) amygdalin hydrolase isoform AH I precursor [Prunus serotina]		

Seq. No.	21041	Seq. ID	OJ990907_11.0103.C16
Gene No.	43941	Strand	+
Start	1	End	2063

Name	OJ990907_11.0103.C16.o1.tc	Method	TBLASTX:Cress
Start	501	End	1707
GI	none	Score	542
Exons	501..833, 523..1047, 703..1056, 1235..1336, 1606..1707		

Seq. No.	21041	Seq. ID	OJ990907_11.0103.C16
Gene No.	43941	Strand	+
Start	1	End	2063
Name	OJ990907_11.0103.C16.o1.gs	Method	GENSCAN
Start	511	End	1776
GI	none	Score	.95
Exons	511..1140, 1232..1334, 1505..1776		

Seq. No.	21041	Seq. ID	OJ990907_11.0103.C16
Gene No.	43941	Strand	+
Start	1	End	2063
Name	OJ990907_11.0103.C16.o1.ts	Method	TBLASTX:Soybean
Start	519	End	1770
GI	none	Score	616
Exons	519..827, 520..1143, 685..966, 873..1025, 1256..1342, 1528..1713, 1599..1691, 1708..1770		

Seq. No.	21041	Seq. ID	OJ990907_11.0103.C16
Gene No.	43941	Strand	+
Start	1	End	2063
Name	OJ990907_11.0103.C16.o1.tw	Method	TBLASTX:Wheat
Start	523	End	1050
GI	none	Score	466
Exons	523..1050, 526..657, 537..755, 885..1025		

Seq. No.	21041	Seq. ID	OJ990907_11.0103.C16
Gene No.	43941	Strand	+
Start	1	End	2063
Name	OJ990907_11.0103.C16.o1.tm	Method	TBLASTX:Maize
Start	526	End	1770
GI	none	Score	154
Exons	526..657, 537..662, 684..1019, 685..1134, 1259..1336, 1459..1770, 1587..1691		

Seq. No.	21041	Seq. ID	OJ990907_11.0103.C16
Gene No.	43941	Strand	+
Start	1	End	2063
Name	OJ990907_11.0103.C16.o2.gp	Method	AAT/GAP
Start	994	End	1966
GI	16768_1.R1084	Score	1128
Exons	994..1140, 1232..1334, 1505..1966		
GI Descrip.	'833835 5.0e-39 (U26025) amygdalin hydrolase isoform AH I precursor [Prunus serotina]'		

Seq. No.	21041	Seq. ID	OJ990907_11.0103.C16
Gene No.	43941	Strand	+
Start	1	End	2063
Name	OJ990907_11.0103.C16.o2.tw	Method	TBLASTX:Wheat
Start	1286	End	1791
GI	none	Score	65
Exons	1286..1336, 1503..1691, 1504..1767, 1609..1791		

Seq. No.	21041	Seq. ID	OJ990907_11.0103.C16
Gene No.	43941	Strand	+
Start	1	End	2063
Name	OJ990907_11.0103.C16.o3.gp	Method	AAT/GAP
Start	1763	End	2063
GI	87700.1.R1084	Score	508
Exons	1763..2063		
GI Descrip.	'6069643/dbj AP000616.1 AP000616 1.0e-152 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	21042	Seq. ID	OJ990907_11.0103.C17
Gene No.	43942	Strand	+
Start	185	End	1300
Name	OJ990907_11.0103.C17.o1.gs	Method	GENSCAN
Start	185	End	1300
GI	none	Score	.67
Exons	185..371, 445..660, 903..1300		

Seq. No.	21042	Seq. ID	OJ990907_11.0103.C17
Gene No.	43943	Strand	-
Start	3268	End	5260
Name	OJ990907_11.0103.C17.o2.gs	Method	GENSCAN
Start	3268	End	5260
GI	none	Score	.77
Exons	3268..3428, 5197..5260		

Seq. No.	21043	Seq. ID	OJ990907_11.0103.C18
Gene No.	43944	Strand	+
Start	3357	End	7820
Name	OJ990907_11.0103.C18.o1.gp	Method	AAT/GAP
Start	3320	End	4420
GI	454557	Score	643
Exons	3320..3503, 3642..3716, 3818..3876, 4384..4420		
GI Descrip.	2144166/pir  JC5137 6.0e-19 beta-glucosidase (EC 3.2.1.21) - Bifidobacterium breve >gi_1769814_dbj_BAA19881_ (D88311) beta-D-glucosidase [Bifidobacterium breve]		

Seq. No.	21043	Seq. ID	OJ990907_11.0103.C18
Gene No.	43944	Strand	+
Start	3357	End	7820
Name	OJ990907_11.0103.C18.o1.np	Method	AAT/NAP
Start	3321	End	7820
GI	833835	Score	1190
Exons	3321..3503, 3642..3716, 3815..3876, 4384..4459, 4683..4760, 4886..4973, 5312..5933, 6062..6164, 6884..7163, 7713..7820		
GI Descrip.	(U26025) amygdalin hydrolase isoform AH I precursor [Prunus serotina]		

Seq. No.	21043	Seq. ID	OJ990907_11.0103.C18
Gene No.	43944	Strand	+
Start	3357	End	7820
Name	OJ990907_11.0103.C18.o2.gs	Method	GENSCAN
Start	3357	End	7170
GI	none	Score	.83
Exons	3357..3503, 3642..3666, 3818..3876, 4384..4459, 4683..4760, 4886..4973, 5312..5933, 6062..6164, 6884..7170		



Seq. No.	21043	Seq. ID	OJ990907_11.0103.C18
Gene No.	43944	Strand	+
Start	3357	End	7820
Name	OJ990907_11.0103.C18.o2.gp	Method	AAT/GAP
Start	6899	End	7404
GI	3768017	Score	934
Exons	6899..7404		
GI Descrip.	5030906/dbj BAA78708.1  9.0e-19 (AB003089) beta-glucosidase [Polygonum tinctorium]		

Seq. No.	21043	Seq. ID	OJ990907_11.0103.C18
Gene No.	43945	Strand	+
Start	11281	End	12809
Name	OJ990907_11.0103.C18.o2.np	Method	AAT/NAP
Start	11281	End	12809
GI	2224931	Score	1072
Exons	11281..12304, 12351..12809		
GI Descrip.	(AF004215) ethylene-insensitive3-like3 [Arabidopsis thaliana] gi 6692737 gb AAF24843.1 AC012679_14 (AC012679) ethylene-insensitive3-like3 (EIL3) [Arabidopsis thaliana]		

Seq. No.	21043	Seq. ID	OJ990907_11.0103.C18
Gene No.	43945	Strand	+
Start	11281	End	12809
Name	OJ990907_11.0103.C18.o4.gs	Method	GENSCAN
Start	11281	End	12687
GI	none	Score	.46
Exons	11281..12687		

Seq. No.	21043	Seq. ID	OJ990907_11.0103.C18
Gene No.	43946	Strand	-
Start	979	End	2374
Name	OJ990907_11.0103.C18.o1.gs	Method	GENSCAN
Start	979	End	2374
GI	none	Score	.52
Exons	979..1312, 2316..2374		

Seq. No.	21043	Seq. ID	OJ990907_11.0103.C18
Gene No.	43947	Strand	-
Start	7591	End	9006
Name	OJ990907_11.0103.C18.o2.ts	Method	TBLASTX:Soybean
Start	3432	End	7161
GI	none	Score	84
Exons	3432..3503, 3639..3683, 3683..3709, 3817..3882, 4381..4458, 4684..4761, 4685..4762, 4870..4974, 5313..5936, 5330..5926, 6086..6166, 6883..7161		

Seq. No.	21043	Seq. ID	OJ990907_11.0103.C18
Gene No.	43947	Strand	-
Start	7591	End	9006
Name	OJ990907_11.0103.C18.o2.tc	Method	TBLASTX:Cress
Start	3444	End	7101
GI	none	Score	70
Exons	3444..3506, 4381..4458, 4888..4974, 5316..5840, 5330..5620, 5675..5827, 5936..5974, 6065..6166, 6991..7101		

Seq. No.	21043	Seq. ID	OJ990907_11.0103.C18
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Gene No.	43947	Strand	-
Start	7591	End	9006
Name	OJ990907_11.0103.C18.o2.tm	Method	TBLASTX:Maize
Start	3447	End	7164
GI	none	Score	64
Exons	3447..3506, 3639..3683, 3683..3718, 4375..4458, 4381..4482, 4694..4762, 5292..5450, 5330..5449, 5459..5821, 5472..5927, 6916..7092, 7105..7164		

Seq. No.	21043	Seq. ID	OJ990907_11.0103.C18
Gene No.	43947	Strand	-
Start	7591	End	9006
Name	OJ990907_11.0103.C18.o1.tw	Method	TBLASTX:Wheat
Start	4381	End	5843
GI	none	Score	91
Exons	4381..4458, 4384..4458, 4694..4753, 4881..4955, 4893..4958, 4894..4974, 5313..5393, 5315..5542, 5316..5843, 5678..5821		

Seq. No.	21043	Seq. ID	OJ990907_11.0103.C18
Gene No.	43947	Strand	-
Start	7591	End	9006
Name	OJ990907_11.0103.C18.o3.gs	Method	GENSCAN
Start	7591	End	9006
GI	none	Score	.7
Exons	7591..7608, 7800..7930, 8246..8377, 8766..9006		

Seq. No.	21043	Seq. ID	OJ990907_11.0103.C18
Gene No.	43948	Strand	-
Start	11250	End	12310
Name	OJ990907_11.0103.C18.o1.ts	Method	TBLASTX:Soybean
Start	11250	End	12270
GI	none	Score	36
Exons	11250..11306, 11353..11451, 11491..11742, 11523..11729, 11536..11757, 11784..11963, 11785..11964, 11831..11968, 11958..12143, 11958..12143, 11959..12150, 11962..12165, 12234..12269, 12235..12270		

Seq. No.	21043	Seq. ID	OJ990907_11.0103.C18
Gene No.	43948	Strand	-
Start	11250	End	12310
Name	OJ990907_11.0103.C18.o1.tc	Method	TBLASTX:Cress
Start	11251	End	12310
GI	none	Score	155
Exons	11251..11574, 11479..11748, 11511..11750, 11518..11751, 11779..12153, 11796..12143, 11797..12153, 11957..12172, 12163..12303, 12192..12290, 12227..12310		

Seq. No.	21043	Seq. ID	OJ990907_11.0103.C18
Gene No.	43948	Strand	-
Start	11250	End	12310
Name	OJ990907_11.0103.C18.o1.tm	Method	TBLASTX:Maize
Start	11314	End	12264
GI	none	Score	98
Exons	11314..11454, 11495..11713, 11496..11624, 11497..11742, 11523..11729, 11764..11964, 11769..11963, 11958..12149, 11959..12171, 12223..12264, 12225..12263		

Seq. No.	21043	Seq. ID	OJ990907_11.0103.C18
Gene No.	43949	Strand	
Start	12264	End	12760
Name	OJ990907_11.0103.C18.o3.tm	Method	TBLASTX:Maize
Start	12264	End	12760
GI	none	Score	100
Exons	12264..12335, 12265..12348, 12266..12337, 12274..12447, 12352..12447, 12403..12639, 12406..12639, 12632..12760, 12640..12759		

Seq. No.	21044	Seq. ID	OJ990907_11.0103.C20
Gene No.	43950	Strand	-
Start	168	End	878
Name	OJ990907_11.0103.C20.o1.gs	Method	GENSCAN
Start	168	End	878
GI	none	Score	.9
Exons	168..218, 780..878		

Seq. No.	21045	Seq. ID	OJ990907_11.0103.C21
Gene No.	43951	Strand	-
Start	73	End	233
Name	OJ990907_11.0103.C21.o1.gs	Method	GENSCAN
Start	73	End	233
GI	none	Score	.46
Exons	73..233		

Seq. No.	21046	Seq. ID	OJ990907_11.0103.C22
Gene No.	43952	Strand	-
Start	261	End	350
Name	OJ990907_11.0103.C22.o1.gs	Method	GENSCAN
Start	261	End	350
GI	none	Score	.79
Exons	261..279, 307..350		

Seq. No.	21047	Seq. ID	OJ990907_11.0103.C25
Gene No.	43953	Strand	+
Start	263	End	430
Name	OJ990907_11.0103.C25.o1.gs	Method	GENSCAN
Start	263	End	430
GI	none	Score	.61
Exons	263..430		

Seq. No.	21048	Seq. ID	OJ990817_12.0103.C1
Gene No.	43954	Strand	-
Start	1	End	815
Name	OJ990817_12.0103.C1.o1.np	Method	AAT/NAP
Start	1	End	815
GI	82523	Score	244
Exons	1..184, 732..815		
GI Descrip.	hypothetical 29K protein (trnH-trnV intergenic region) - rice chloroplast gi 12034 emb CAA33940  (X15901) ORF249 [Oryza sativa] gi 12068 emb CAA33921  (X15901) ORF249 [Oryza sativa] gi 226655 prf  1603356CF ORF 249 [Oryza sativa]		

Seq. No.	21048	Seq. ID	OJ990817_12.0103.C1
Gene No.	43955	Strand	-
Start	779	End	3848

Name OJ990817\_12.0103.C1.o1.gs  
 Start 779  
 GI none  
 Exons 779..955, 3828..3848

Method GENSCAN  
 End 3848  
 Score .43

Seq. No. 21049  
 Gene No. 43956  
 Start 93  
 Name OJ990817\_12.0103.C2.o1.gs  
 Start 93  
 GI none  
 Exons 93..884

Seq. ID OJ990817\_12.0103.C2  
 Strand +  
 End 884  
 Method GENSCAN  
 End 884  
 Score .96

Seq. No. 21049  
 Gene No. 43956  
 Start 93  
 Name OJ990817\_12.0103.C2.o1.gp  
 Start 99  
 GI LIB3434-041-P1-K1-A10  
 Exons 99..184

Seq. ID OJ990817\_12.0103.C2  
 Strand +  
 End 884  
 Method AAT/GAP  
 End 184  
 Score 154

GI Descrip. '2129770/pir||S71224 2.0e-32 xyloglucan  
 endotransglycosylase-related protein XTR-2 - Arabidopsis  
 thaliana >gi\_1244756 (U43487) xyloglucan  
 endotransglycosylase-related protein [Arabidopsis thaliana]  
 >gi\_2154611\_dbj\_BAA20290\_ (D63510) endoxyloglucan transferase  
 related protein [Arabidopsis thaliana]  
 >gi\_5533311\_gb\_AAD45124.1\_AF163820\_1 (AF163820) endoxyloglucan  
 transferase [Ara']

Seq. No. 21049  
 Gene No. 43956  
 Start 93  
 Name OJ990817\_12.0103.C2.o1.np  
 Start 99  
 GI 2129774  
 Exons 99..866

Seq. ID OJ990817\_12.0103.C2  
 Strand +  
 End 884  
 Method AAT/NAP  
 End 866  
 Score 589

GI Descrip. xyloglucan endotransglycosylase-related protein XTR4 -  
 Arabidopsis thaliana (fragment) gi|1244754 (U43486) xyloglucan  
 endotransglycosylase-related protein [Arabidopsis thaliana]

Seq. No. 21049  
 Gene No. 43957  
 Start 878  
 Name OJ990817\_12.0103.C2.o2.gp  
 Start 878  
 GI LIB3433-011-Q6-K1-H5  
 Exons 878..1020

Seq. ID OJ990817\_12.0103.C2  
 Strand +  
 End 1020  
 Method AAT/GAP  
 End 1020  
 Score 221

GI Descrip. '218144/dbj|D12637|RICATADPT 7.0e-11 Rice mRNA for ATP/ADP  
 translocator, complete cds'

Seq. No. 21049  
 Gene No. 43958  
 Start 3080  
 Name OJ990817\_12.0103.C2.o1.tc  
 Start 99  
 GI none  
 Exons 99..590, 101..505, 669..737

Seq. ID OJ990817\_12.0103.C2  
 Strand -  
 End 4570  
 Method TBLASTX:Cress  
 End 737  
 Score 521

Seq. No.	21049	Seq. ID	OJ990817_12.0103.C2
Gene No.	43958	Strand	-
Start	3080	End	4570
Name	OJ990817_12.0103.C2.o1.ts	Method	TBLASTX:Soybean
Start	101	End	761
GI	none	Score	522
Exons	101..511, 102..572, 617..745, 669..761		
Seq. No.	21049	Seq. ID	OJ990817_12.0103.C2
Gene No.	43958	Strand	-
Start	3080	End	4570
Name	OJ990817_12.0103.C2.o2.tm	Method	TBLASTX:Maize
Start	102	End	764
GI	none	Score	515
Exons	102..530, 107..526, 617..736, 669..704, 705..764		
Seq. No.	21049	Seq. ID	OJ990817_12.0103.C2
Gene No.	43958	Strand	-
Start	3080	End	4570
Name	OJ990817_12.0103.C2.o3.gp	Method	AAT/GAP
Start	3080	End	3636
GI	none	Score	1061
Exons	3080..3636		
Seq. No.	21049	Seq. ID	OJ990817_12.0103.C2
Gene No.	43958	Strand	-
Start	3080	End	4570
Name	OJ990817_12.0103.C2.o2.np	Method	AAT/NAP
Start	3322	End	4561
GI	729775	Score	736
Exons	3322..4561		
GI Descrip.	HEAT SHOCK FACTOR PROTEIN HSF8 (HEAT SHOCK TRANSCRIPTION FACTOR 8) (HSTF 8) (HEAT STRESS TRANSCRIPTION FACTOR) gi 100264 pir  S25481 heat shock transcription factor 8 - Peruvian tomato gi 19492 emb CAA47869  (X67600) heat shock transcription factor 8 [Lycopersicon peruvianum]		
Seq. No.	21049	Seq. ID	OJ990817_12.0103.C2
Gene No.	43958	Strand	-
Start	3080	End	4570
Name	OJ990817_12.0103.C2.o1.tm	Method	TBLASTX:Maize
Start	3344	End	4374
GI	none	Score	97
Exons	3344..3412, 3345..3413, 3437..3538, 3443..3541, 3524..3583, 3537..3584, 3538..3585, 3605..3703, 3606..3731, 3607..3705, 3712..3951, 3719..3964, 3720..3965, 3953..4090, 3962..4099, 3966..4100, 4082..4372, 4084..4374, 4086..4229, 4319..4372		
Seq. No.	21049	Seq. ID	OJ990817_12.0103.C2
Gene No.	43958	Strand	-
Start	3080	End	4570
Name	OJ990817_12.0103.C2.o2.tc	Method	TBLASTX:Cress
Start	3344	End	4570
GI	none	Score	44
Exons	3344..3388, 3485..3523, 3863..3973, 3911..4117, 3981..4070, 4118..4177, 4124..4561, 4170..4229, 4319..4570		

Seq. No.	21049	Seq. ID	OJ990817_12.0103.C2
Gene No.	43958	Strand	-
Start	3080	End	4570
Name	OJ990817_12.0103.C2.o3.ts	Method	TBLASTX:Soybean
Start	3905	End	4138
GI	none	Score	89
Exons	3905..4138, 3963..4088, 4013..4138		
Seq. No.	21049	Seq. ID	OJ990817_12.0103.C2
Gene No.	43958	Strand	-
Start	3080	End	4570
Name	OJ990817_12.0103.C2.o4.gp	Method	AAT/GAP
Start	4024	End	4493
GI	LIB3474-012-P1-K1-B8	Score	881
Exons	4024..4493		
GI Descrip.	'729775/sp P41153 HSF8_LYCPE 4.0e-34 HEAT SHOCK FACTOR PROTEIN HSF8 (HEAT SHOCK TRANSCRIPTION FACTOR 8) (HSTF 8) (HEAT STRESS TRANSCRIPTION FACTOR) >gi_100264_pir_S25481 heat shock transcription factor 8 - Peruvian tomato >gi_19492_emb_CAA47869_ (X67600).heat shock transcription factor 8 [Lycopersicon peruvianum]'		
Seq. No.	21049	Seq. ID	OJ990817_12.0103.C2
Gene No.	43958	Strand	-
Start	3080	End	4570
Name	OJ990817_12.0103.C2.o2.ts	Method	TBLASTX:Soybean
Start	4145	End	4562
GI	none	Score	54
Exons	4145..4225, 4148..4399, 4173..4229, 4221..4400, 4222..4362, 4319..4462, 4448..4561, 4455..4562		
Seq. No.	21050	Seq. ID	OJ990817_12.0103.C3
Gene No.	43959	Strand	+
Start	2842	End	3405
Name	OJ990817_12.0103.C3.o2.np	Method	AAT/NAP
Start	2800	End	3368
GI	2213625	Score	213
Exons	2800..3368		
GI Descrip.	(AC000103) F21J9.17 [Arabidopsis thaliana]		
Seq. No.	21050	Seq. ID	OJ990817_12.0103.C3
Gene No.	43959	Strand	+
Start	2842	End	3405
Name	OJ990817_12.0103.C3.o2.gs	Method	GENSCAN
Start	2842	End	3405
GI	none	Score	.74
Exons	2842..3405		
Seq. No.	21050	Seq. ID	OJ990817_12.0103.C3
Gene No.	43960	Strand	-
Start	1	End	414
Name	OJ990817_12.0103.C3.o1.np	Method	AAT/NAP
Start	1	End	414
GI	729775	Score	268
Exons	1..414		
GI Descrip.	HEAT SHOCK FACTOR PROTEIN HSF8 (HEAT SHOCK TRANSCRIPTION FACTOR		

8) (HSTF 8) (HEAT STRESS TRANSCRIPTION FACTOR)  
gi|100264|pir||S25481 heat shock transcription factor 8 -  
Peruvian tomato gi|19492|emb|CAA47869| (X67600) heat shock  
transcription factor 8 [Lycopersicon peruvianum]

Seq. No.	21050	Seq. ID	OJ990817_12.0103.C3
Gene No.	43960	Strand	-
Start	1	End	414
Name	OJ990817_12.0103.C3.o1.gs	Method	GENSCAN
Start	111	End	398
GI	none	Score	.8
Exons	111..398		

Seq. No.	21050	Seq. ID	OJ990817_12.0103.C3
Gene No.	43961	Strand	-
Start	4119	End	6596
Name	OJ990817_12.0103.C3.o1.tc	Method	TBLASTX:Cress
Start	111	End	297
GI	none	Score	152
Exons	111..296, 166..297		

Seq. No.	21050	Seq. ID	OJ990817_12.0103.C3
Gene No.	43961	Strand	-
Start	4119	End	6596
Name	OJ990817_12.0103.C3.o3.tm	Method	TBLASTX:Maize
Start	111	End	311
GI	none	Score	73
Exons	111..311, 143..211, 166..297		

Seq. No.	21050	Seq. ID	OJ990817_12.0103.C3
Gene No.	43961	Strand	-
Start	4119	End	6596
Name	OJ990817_12.0103.C3.o1.ts	Method	TBLASTX:Soybean
Start	111	End	305
GI	none	Score	74
Exons	111..305, 143..220, 166..300		

Seq. No.	21050	Seq. ID	OJ990817_12.0103.C3
Gene No.	43961	Strand	-
Start	4119	End	6596
Name	OJ990817_12.0103.C3.o1.tw	Method	TBLASTX:Wheat
Start	111	End	311
GI	none	Score	82
Exons	111..311, 143..241, 166..297		

Seq. No.	21050	Seq. ID	OJ990817_12.0103.C3
Gene No.	43961	Strand	-
Start	4119	End	6596
Name	OJ990817_12.0103.C3.o3.ts	Method	TBLASTX:Soybean
Start	2919	End	3303
GI	none	Score	124
Exons	2919..3032, 2929..3138, 3184..3303		

Seq. No.	21050	Seq. ID	OJ990817_12.0103.C3
Gene No.	43961	Strand	-
Start	4119	End	6596
Name	OJ990817_12.0103.C3.o3.np	Method	AAT/NAP

Start	4092	End	6596
GI	2462671	Score	137
Exons	4092..4442, 4872..4965, 5065..5210, 5327..5396, 6374..6426, 6509..6596		
GI Descrip.	(Z98529) putative RNA-binding protein [Schizosaccharomyces pombe]		

Seq. No.	21050	Seq. ID	OJ990817_12.0103.C3
Gene No.	43961	Strand	-
Start	4119	End	6596
Name	OJ990817_12.0103.C3.o2.tm	Method	TBLASTX:Maize
Start	4117	End	4437
GI	none	Score	154
Exons	4117..4233, 4120..4230, 4121..4240, 4272..4433, 4274..4432, 4276..4437		

Seq. No.	21050	Seq. ID	OJ990817_12.0103.C3
Gene No.	43961	Strand	-
Start	4119	End	6596
Name	OJ990817_12.0103.C3.o3.gs	Method	GENSCAN
Start	4119	End	6432
GI	none	Score	.89
Exons	4119..4568, 4872..5000, 5088..5210, 5327..5396, 6374..6432		

Seq. No.	21050	Seq. ID	OJ990817_12.0103.C3
Gene No.	43961	Strand	-
Start	4119	End	6596
Name	OJ990817_12.0103.C3.o2.ts	Method	TBLASTX:Soybean
Start	4500	End	5198
GI	4300038	Score	87
Exons	4500..4571, 4870..4980, 4872..5003, 4887..5003, 5086..5145, 5088..5174, 5148..5198, 5149..5193		
GI Descrip.	2462671/emb_CAB11047_1.0e-09 (Z98529) putative RNA-binding protein [Schizosaccharomyces pombe]		

Seq. No.	21050	Seq. ID	OJ990817_12.0103.C3
Gene No.	43961	Strand	-
Start	4119	End	6596
Name	OJ990817_12.0103.C3.o1.tm	Method	TBLASTX:Maize
Start	4870	End	6574
GI	none	Score	138
Exons	4870..4992, 4872..5003, 5086..5211, 5088..5210, 5327..5395, 5327..5398, 5331..5399, 5332..5403, 6287..6400, 6374..6433, 6375..6431, 6376..6441, 6483..6551, 6507..6569, 6512..6574, 6512..6574		

Seq. No.	21051	Seq. ID	OJ990817_12.0103.C4
Gene No.	43962	Strand	+
Start	979	End	12023
Name	OJ990817_12.0103.C4.o1.gs	Method	GENSCAN
Start	979	End	6150
GI	none	Score	.68
Exons	979..1060, 1388..1517, 2030..2107, 3119..3258, 3306..3472, 4204..4660, 4793..5053, 5444..5566, 5773..5877, 6073..6150		

Seq. No.	21051	Seq. ID	OJ990817_12.0103.C4
Gene No.	43962	Strand	+



Start	979	End	12023
Name	OJ990817_12.0103.C4.o1.gp	Method	AAT/GAP
Start	3080	End	4373
GI	28872_1.R1084	Score	826
Exons	3080..3258, 3354..3472, 4204..4373		
GI Descrip.	'2894598/emb CAA17132.1  4.0e-49 (AL021889) putative protein [Arabidopsis thaliana]'		

Seq. No.	21051	Seq. ID	OJ990817_12.0103.C4
Gene No.	43962	Strand	+
Start	979	End	12023
Name	OJ990817_12.0103.C4.o1.np	Method	AAT/NAP
Start	3181	End	12023
GI	2894598	Score	908
Exons	3181..3258, 3354..3472, 4204..4477, 4505..4660, 4793..5053, 5444..5566, 5773..5877, 6046..6140, 8874..9076, 12005..12023		
GI Descrip.	(AL021889) putative protein [Arabidopsis thaliana]		

Seq. No.	21051	Seq. ID	OJ990817_12.0103.C4
Gene No.	43962	Strand	+
Start	979	End	12023
Name	OJ990817_12.0103.C4.o3.np	Method	AAT/NAP
Start	8624	End	10875
GI	3128193	Score	566
Exons	8624..8810, 8943..8997, 9096..9275, 9459..9665, 9773..9838, 10034..10126, 10216..10272, 10786..10875		
GI Descrip.	(AC004521) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	21051	Seq. ID	OJ990817_12.0103.C4
Gene No.	43962	Strand	+
Start	979	End	12023
Name	OJ990817_12.0103.C4.o3.gs	Method	GENSCAN
Start	8638	End	10881
GI	none	Score	.91
Exons	8638..8779, 8858..8997, 9087..9359, 9456..9665, 9773..9838, 10034..10126, 10216..10272, 10786..10881		

Seq. No.	21051	Seq. ID	OJ990817_12.0103.C4
Gene No.	43963	Strand	-
Start	5997	End	6483
Name	OJ990817_12.0103.C4.o2.gp	Method	AAT/GAP
Start	5997	End	6483
GI	none	Score	860
Exons	5997..6483		

Seq. No.	21051	Seq. ID	OJ990817_12.0103.C4
Gene No.	43964	Strand	-
Start	7751	End	8368
Name	OJ990817_12.0103.C4.o3.gp	Method	AAT/GAP
Start	7747	End	8368
GI	none	Score	1189
Exons	7747..8368		

Seq. No.	21051	Seq. ID	OJ990817_12.0103.C4
Gene No.	43964	Strand	-
Start	7751	End	8368
Name	OJ990817_12.0103.C4.o2.gs	Method	GENSCAN

Start 7751  
GI none  
Exons 7751..8317

End 8317  
Score 1

Seq. No. 21051 Seq. ID OJ990817\_12.0103.C4  
Gene No. 43964 Strand -  
Start 7751 End 8368  
Name OJ990817\_12.0103.C4.o2.np Method AAT/NAP  
Start 7754 End 8260  
GI 6728970 Score 476  
Exons 7754..8260  
GI Descrip. (AC018363) unknown protein [Arabidopsis thaliana]

Seq. No. 21051 Seq. ID OJ990817\_12.0103.C4  
Gene No. 43965 Strand -  
Start 11788 End 13372  
Name OJ990817\_12.0103.C4.o5.tm Method TBLASTX:Maize  
Start 846 End 1689  
GI none Score 110  
Exons 846..926, 858..929, 863..928, 989..1060, 1002..1064, 1384..1515,  
1385..1516, 1598..1687, 1624..1689, 1624..1689

Seq. No. 21051 Seq. ID OJ990817\_12.0103.C4  
Gene No. 43965 Strand -  
Start 11788 End 13372  
Name OJ990817\_12.0103.C4.o3.tc Method TBLASTX:Cress  
Start 3181 End 4405  
GI none Score 82  
Exons 3181..3261, 3190..3258, 3348..3473, 3359..3475, 4192..4248,  
4202..4405, 4297..4395

Seq. No. 21051 Seq. ID OJ990817\_12.0103.C4  
Gene No. 43965 Strand -  
Start 11788 End 13372  
Name OJ990817\_12.0103.C4.o3.ts Method TBLASTX:Soybean  
Start 3183 End 3475  
GI none Score 70  
Exons 3183..3254, 3190..3261, 3190..3264, 3348..3473, 3353..3475

Seq. No. 21051 Seq. ID OJ990817\_12.0103.C4  
Gene No. 43965 Strand -  
Start 11788 End 13372  
Name OJ990817\_12.0103.C4.o1.tm Method TBLASTX:Maize  
Start 3184 End 5512  
GI none Score 80  
Exons 3184..3261, 3193..3264, 3348..3473, 3353..3475, 4195..4248,  
4202..4399, 4202..4417, 4394..4561, 4396..4527, 4582..4659,  
4582..4668, 4783..4818, 4790..4891, 4791..4850, 4859..4936,  
4939..5013, 4940..5056, 5441..5512

Seq. No. 21051 Seq. ID OJ990817\_12.0103.C4  
Gene No. 43965 Strand -  
Start 11788 End 13372  
Name OJ990817\_12.0103.C4.o2.ts Method TBLASTX:Soybean  
Start 4219 End 6135  
GI none Score 281  
Exons 4219..4248, 4220..4528, 4247..4411, 4303..4527, 4790..4831,

4814..5017, 4855..4941, 4896..5036, 4966..5025, 4968..5048,  
5441..5527, 5443..5532, 6043..6135, 6054..6134

Seq. No.	21051	Seq. ID	OJ990817_12.0103.C4
Gene No.	43965	Strand	-
Start	11788	End	13372
Name	OJ990817_12.0103.C4.o2.tw	Method	TBLASTX:Wheat
Start	4794	End	5017
GI	none	Score	230
Exons	4794..4838, 4796..4912, 4802..5017, 4861..5013		

Seq. No.	21051	Seq. ID	OJ990817_12.0103.C4
Gene No.	43965	Strand	-
Start	11788	End	13372
Name	OJ990817_12.0103.C4.o2.tc	Method	TBLASTX:Cress
Start	7763	End	8243
GI	none	Score	159
Exons	7763..7924, 7946..8026, 8024..8242, 8031..8243		

Seq. No.	21051	Seq. ID	OJ990817_12.0103.C4
Gene No.	43965	Strand	-
Start	11788	End	13372
Name	OJ990817_12.0103.C4.o3.tm	Method	TBLASTX:Maize
Start	7943	End	8243
GI	none	Score	60
Exons	7943..8065, 7953..8066, 8066..8242, 8067..8243		

Seq. No.	21051	Seq. ID	OJ990817_12.0103.C4
Gene No.	43965	Strand	-
Start	11788	End	13372
Name	OJ990817_12.0103.C4.o1.ts	Method	TBLASTX:Soybean
Start	7964	End	8243
GI	none	Score	144
Exons	7964..8008, 7997..8242, 8037..8243		

Seq. No.	21051	Seq. ID	OJ990817_12.0103.C4
Gene No.	43965	Strand	-
Start	11788	End	13372
Name	OJ990817_12.0103.C4.o6.tm	Method	TBLASTX:Maize
Start	9772	End	10883
GI	none	Score	94
Exons	9772..9816, 9773..9838, 9773..9838, 9774..9842, 10033..10062, 10034..10135, 10085..10126, 10205..10273, 10213..10275, 10215..10271, 10231..10287, 10770..10865, 10783..10881, 10785..10883		

Seq. No.	21051	Seq. ID	OJ990817_12.0103.C4
Gene No.	43965	Strand	-
Start	11788	End	13372
Name	OJ990817_12.0103.C4.o4.tm	Method	TBLASTX:Maize
Start	11753	End	11995
GI	none	Score	68
Exons	11753..11818, 11755..11823, 11756..11827, 11821..11994, 11825..11995		

Seq. No.	21051	Seq. ID	OJ990817_12.0103.C4
Gene No.	43965	Strand	-

Start	11788	End	13372
Name	OJ990817_12.0103.C4.o1.tc	Method	TBLASTX:Cress
Start	11782	End	12275
GI	none	Score	417
Exons	11782..11826, 11824..12267, 11825..12244, 11827..12270, 11988..12275		

Seq. No.	21051	Seq. ID	OJ990817_12.0103.C4
Gene No.	43965	Strand	-
Start	11788	End	13372
Name	OJ990817_12.0103.C4.o4.gs	Method	GENSCAN
Start	11788	End	13350
GI	none	Score	.68
Exons	11788..12464, 13245..13350		

Seq. No.	21051	Seq. ID	OJ990817_12.0103.C4
Gene No.	43965	Strand	-
Start	11788	End	13372
Name	OJ990817_12.0103.C4.o4.np	Method	AAT/NAP
Start	11791	End	12545
GI	4510390	Score	646
Exons	11791..12361, 12402..12545		
GI Descrip.	(AC007017) unknown protein [Arabidopsis thaliana]		

Seq. No.	21051	Seq. ID	OJ990817_12.0103.C4
Gene No.	43965	Strand	-
Start	11788	End	13372
Name	OJ990817_12.0103.C4.o2.tm	Method	TBLASTX:Maize
Start	12021	End	13362
GI	none	Score	418
Exons	12021..12311, 12022..12465, 12026..12466, 12029..12466, 13224..13295, 13249..13362, 13249..13356, 13328..13357		

Seq. No.	21051	Seq. ID	OJ990817_12.0103.C4
Gene No.	43965	Strand	-
Start	11788	End	13372
Name	OJ990817_12.0103.C4.o4.gp	Method	AAT/GAP
Start	12088	End	13372
GI	none	Score	826
Exons	12088..12464, 13245..13372		

Seq. No.	21051	Seq. ID	OJ990817_12.0103.C4
Gene No.	43965	Strand	-
Start	11788	End	13372
Name	OJ990817_12.0103.C4.o1.tw	Method	TBLASTX:Wheat
Start	12113	End	12423
GI	none	Score	293
Exons	12113..12421, 12113..12421, 12115..12423		

Seq. No.	21052	Seq. ID	OJ990817_12.0103.C5
Gene No.	43966	Strand	+
Start	42	End	2728
Name	OJ990817_12.0103.C5.o1.gs	Method	GENSCAN
Start	42	End	2728
GI	none	Score	.94
Exons	42..91, 154..2728		

Seq. No. 21052  
 Gene No. 43966  
 Start 42  
 Name OJ990817\_12.0103.C5.o1.gp  
 Start 1391  
 GI none  
 Exons 1391..1889

Seq. ID OJ990817\_12.0103.C5  
 Strand +  
 End 2728  
 Method AAT/GAP  
 End 1889  
 Score 926

Seq. No. 21052  
 Gene No. 43967  
 Start 2467  
 Name OJ990817\_12.0103.C5.o1.ts  
 Start 1033  
 GI none  
 Exons 1033..1299, 1064..1300

Seq. ID OJ990817\_12.0103.C5  
 Strand -  
 End 2923  
 Method TBLASTX:Soybean  
 End 1300  
 Score 198

Seq. No. 21052  
 Gene No. 43967  
 Start 2467  
 Name OJ990817\_12.0103.C5.o1.tc  
 Start 1911  
 GI none  
 Exons 1911..2252, 1911..2030, 1912..2268, 1913..2275, 2068..2277

Seq. ID OJ990817\_12.0103.C5  
 Strand -  
 End 2923  
 Method TBLASTX:Cress  
 End 2277  
 Score 125

Seq. No. 21052  
 Gene No. 43967  
 Start 2467  
 Name OJ990817\_12.0103.C5.o1.tm  
 Start 2044  
 GI none  
 Exons 2044..2253, 2045..2254

Seq. ID OJ990817\_12.0103.C5  
 Strand -  
 End 2923  
 Method TBLASTX:Maize  
 End 2254  
 Score 266

Seq. No. 21052  
 Gene No. 43967  
 Start 2467  
 Name OJ990817\_12.0103.C5.o2.gp  
 Start 2467  
 GI none  
 Exons 2467..2923

Seq. ID OJ990817\_12.0103.C5  
 Strand -  
 End 2923  
 Method AAT/GAP  
 End 2923  
 Score 898

Seq. No. 21052  
 Gene No. 43967  
 Start 2467  
 Name OJ990817\_12.0103.C5.o2.tm  
 Start 2557  
 GI none  
 Exons 2557..2730, 2558..2734

Seq. ID OJ990817\_12.0103.C5  
 Strand -  
 End 2923  
 Method TBLASTX:Maize  
 End 2734  
 Score 224

Seq. No. 21053  
 Gene No. 43968  
 Start 1739  
 Name OJ990817\_12.0103.C6.o1.gs  
 Start 1739  
 GI none  
 Exons 1739..2515

Seq. ID OJ990817\_12.0103.C6  
 Strand +  
 End 2515  
 Method GENSCAN  
 End 2515  
 Score .99

Seq. No. 21054

Seq. ID OJ990817\_12.0103.C7

Gene No. 43969  
 Start 529  
 Name OJ990817\_12.0103.C7.o1.gs  
 Start 529  
 GI none  
 Exons 529..584, 683..875

Strand +  
 End 875  
 Method GENSCAN  
 End 875  
 Score .97

Seq. No. 21055  
 Gene No. 43970  
 Start 1  
 Name OJ990817\_12.0103.C8.o1.np  
 Start 1  
 GI 5042454  
 Exons 1..137  
 GI Descrip. (AC007789) putative polyprotein [Oryza sativa]

Seq. ID OJ990817\_12.0103.C8  
 Strand +  
 End 137  
 Method AAT/NAP  
 End 137  
 Score 72

Seq. No. 21056  
 Gene No. 43971  
 Start 178  
 Name OJ990817\_12.0103.C9.o1.gp  
 Start 178  
 GI none  
 Exons 178..459

Seq. ID OJ990817\_12.0103.C9  
 Strand +  
 End 560  
 Method AAT/GAP  
 End 459  
 Score 537

Seq. No. 21056  
 Gene No. 43971  
 Start 178  
 Name OJ990817\_12.0103.C9.o1.gs  
 Start 201  
 GI none  
 Exons 201..560

Seq. ID OJ990817\_12.0103.C9  
 Strand +  
 End 560  
 Method GENSCAN  
 End 560  
 Score .77

Seq. No. 21056  
 Gene No. 43972  
 Start 893  
 Name OJ990817\_12.0103.C9.o2.gp  
 Start 893  
 GI none  
 Exons 893..1758

Seq. ID OJ990817\_12.0103.C9  
 Strand +  
 End 4859  
 Method AAT/GAP  
 End 1758  
 Score 1703

Seq. No. 21056  
 Gene No. 43972  
 Start 893  
 Name OJ990817\_12.0103.C9.o1.tm  
 Start 1261  
 GI none  
 Exons 1261..1401, 1269..1400, 1411..1614, 1434..1571, 1436..1615, 1439..1615, 1441..1647, 1609..1959, 1638..1946, 1646..1957, 1991..2041, 2024..2566, 2027..2413, 2059..2535, 2127..2558, 2664..2882, 2664..2882, 2677..2910

Seq. ID OJ990817\_12.0103.C9  
 Strand +  
 End 4859  
 Method TBLASTX:Maize  
 End 2910  
 Score 94

Seq. No. 21056  
 Gene No. 43972  
 Start 893  
 Name OJ990817\_12.0103.C9.o2.gs  
 Start 1441  
 GI none

Seq. ID OJ990817\_12.0103.C9  
 Strand +  
 End 4859  
 Method GENSCAN  
 End 4109  
 Score .66

Exons 1441..2540, 2654..2895, 2999..3060, 3810..4109

Seq. No. 21056 Seq. ID OJ990817\_12.0103.C9  
Gene No. 43972 Strand +  
Start 893 End 4859  
Name OJ990817\_12.0103.C9.o1.ts Method TBLASTX:Soybean  
Start 1723 End 4188  
GI none Score 111  
Exons 1723..1908, 1809..1907, 2332..2457, 2490..2528, 2494..2517,  
2644..2793, 2652..2879, 2652..2876, 3866..3994, 3878..4039,  
4090..4185, 4093..4188

Seq. No. 21056 Seq. ID OJ990817\_12.0103.C9  
Gene No. 43972 Strand +  
Start 893 End 4859  
Name OJ990817\_12.0103.C9.o3.gp Method AAT/GAP  
Start 2097 End 2705  
GI 6089 2.R1084 Score 929  
Exons 2097..2540, 2654..2705  
GI Descrip. '3608137 1.0e-12 (AC005314) unknown protein [Arabidopsis  
thaliana]'

Seq. No. 21056 Seq. ID OJ990817\_12.0103.C9  
Gene No. 43972 Strand +  
Start 893 End 4859  
Name OJ990817\_12.0103.C9.o4.gp Method AAT/GAP  
Start 2830 End 4859  
GI none Score 1294  
Exons 2830..2895, 2999..3060, 3810..3995, 4087..4182, 4473..4647,  
4677..4859

Seq. No. 21056 Seq. ID OJ990817\_12.0103.C9  
Gene No. 43972 Strand +  
Start 893 End 4859  
Name OJ990817\_12.0103.C9.o2.tm Method TBLASTX:Maize  
Start 2985 End 4182  
GI none Score 70  
Exons 2985..3062, 2987..3061, 3797..3880, 3832..3993, 3881..3994,  
3881..3994, 3918..3995, 4084..4182, 4087..4182

Seq. No. 21057 Seq. ID OJ990817\_12.0103.C10  
Gene No. 43973 Strand +  
Start 1 End 519  
Name OJ990817\_12.0103.C10.o1.np Method AAT/NAP  
Start 1 End 519  
GI 128657 Score 329  
Exons 1..61, 283..519  
GI Descrip. NADH-PLASTOQUINONE OXIDOREDUCTASE CHAIN 2, CHLOROPLAST  
gi|66149|pir||DERZN2 NADH dehydrogenase (ubiquinone) (EC  
1.6.5.3) chain 2 - rice chloroplast gi|669085|emb|CAA33941|  
(X15901) NADH dehydrogenase ND2 [Oryza sativa]  
gi|669089|emb|CAA33920| (X15901) NADH dehydrogenase ND2 [Oryza  
sativa] gi|226656|prf||1603356CG NADH dehydrogenase ND2 [Oryza  
sativa]

Seq. No. 21057 Seq. ID OJ990817\_12.0103.C10  
Gene No. 43974 Strand -

Start	1154	End	1729
Name	OJ990817_12.0103.C10.o1.ts	Method	TBLASTX:Soybean
Start	283	End	533
GI	none	Score	327
Exons	283..513, 285..533, 288..521		

Seq. No.	21057	Seq. ID	OJ990817_12.0103.C10
Gene No.	43974	Strand	-
Start	1154	End	1729
Name	OJ990817_12.0103.C10.o1.tw	Method	TBLASTX:Wheat
Start	329	End	814
GI	none	Score	328
Exons	329..544, 330..569, 330..569, 559..609, 561..608, 583..609, 594..662, 607..672, 614..634, 620..661, 622..699, 623..697, 624..704, 626..688, 679..735, 679..735, 737..814, 737..814		

Seq. No.	21057	Seq. ID	OJ990817_12.0103.C10
Gene No.	43974	Strand	-
Start	1154	End	1729
Name	OJ990817_12.0103.C10.o1.gs	Method	GENSCAN
Start	1154	End	1302
GI	none	Score	.97
Exons	1154..1302		

Seq. No.	21057	Seq. ID	OJ990817_12.0103.C10
Gene No.	43974	Strand	-
Start	1154	End	1729
Name	OJ990817_12.0103.C10.o2.np	Method	AAT/NAP
Start	1170	End	1729
GI	82523	Score	946
Exons	1170..1729		
GI Descrip.	hypothetical 29K protein (trnH-trnV intergenic region) - rice chloroplast gi 12034 emb CAA33940  (X15901) ORF249 [Oryza sativa] gi 12068 emb CAA33921  (X15901) ORF249 [Oryza sativa] gi 226655 prf  1603356CF ORF 249 [Oryza sativa]		

Seq. No.	21058	Seq. ID	OJ990817_12.0103.C14
Gene No.	43975	Strand	+
Start	1	End	468
Name	OJ990817_12.0103.C14.o1.gp	Method	AAT/GAP
Start	1	End	402
GI	none	Score	787
Exons	1..402		

Seq. No.	21058	Seq. ID	OJ990817_12.0103.C14
Gene No.	43975	Strand	+
Start	1	End	468
Name	OJ990817_12.0103.C14.o1.tm	Method	TBLASTX:Maize
Start	12	End	468
GI	none	Score	36
Exons	12..44, 18..44, 55..258, 78..215, 80..259, 83..259, 85..291, 253..468, 282..467		

Seq. No.	21058	Seq. ID	OJ990817_12.0103.C14
Gene No.	43975	Strand	+
Start	1	End	468
Name	OJ990817_12.0103.C14.o1.gs	Method	GENSCAN



Start	85	End	296
GI	none	Score	.86
Exons	85..296		

  

Seq. No.	21059	Seq. ID	OJ990817_12.0103.C15
Gene No.	43976	Strand	-
Start	369	End	479
Name	OJ990817_12.0103.C15.o1.gp	Method	AAT/GAP
Start	369	End	479
GI	LIB3477-003-P1-K1-E9	Score	183.
Exons	369..479		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	21060	Seq. ID	OJ990817_12.0103.C16
Gene No.	43977	Strand	+
Start	12549	End	16006
Name	OJ990817_12.0103.C16.o2.gs	Method	GENSCAN
Start	12549	End	16006
GI	none	Score	.83
Exons	12549..12722, 12809..13444, 14077..14161, 15930..16006		

Seq. No.	21060	Seq. ID	OJ990817_12.0103.C16
Gene No.	43978	Strand	+
Start	15989	End	16545
Name	OJ990817_12.0103.C16.o3.gp	Method	AAT/GAP
Start	15989	End	16545
GI	1632436	Score	802
Exons	15989..16025, 16134..16545		

Seq. No.	21060	Seq. ID	OJ990817_12.0103.C16
Gene No.	43979	Strand	-
Start	45	End	10812
Name	OJ990817_12.0103.C16.o1.gp	Method	AAT/GAP
Start	45	End	489
GI	none	Score	590
Exons	45..242, 358..489		

Seq. No.	21060	Seq. ID	OJ990817_12.0103.C16
Gene No.	43979	Strand	-
Start	45	End	10812
Name	OJ990817_12.0103.C16.o1.gs	Method	GENSCAN
Start	117	End	10812
GI	none	Score	.48
Exons	117..242, 358..533, 709..851, 2932..2990, 3957..4987, 5133..5221, 6382..6542, 7398..7451, 8636..8719, 8880..9094, 9877..9990, 10199..10298, 10418..10722, 10728..10812		

Seq. No.	21060	Seq. ID	OJ990817_12.0103.C16
Gene No.	43979	Strand	-
Start	45	End	10812
Name	OJ990817_12.0103.C16.o1.np	Method	AAT/NAP
Start	3888	End	5198
GI	2809252	Score	962
Exons	3888..5198		
GI Descrip.	(AC002560) F21B7.21 [Arabidopsis thaliana]		

Seq. No.	21060	Seq. ID	OJ990817_12.0103.C16
Gene No.	43979	Strand	-
Start	45	End	10812
Name	OJ990817_12.0103.C16.o2.gp	Method	AAT/GAP
Start	6216	End	8695
GI	uC-osflcyp112c08a1	Score	801
Exons	6216..6542, 7398..7451, 8636..8695		
GI Descrip.	'4115936/gb AAD03446.1  1.0e-32 (AF118223) No definition line found [Arabidopsis thaliana]'		

Seq. No.	21060	Seq. ID	OJ990817_12.0103.C16
Gene No.	43979	Strand	-
Start	45	End	10812
Name	OJ990817_12.0103.C16.o2.np	Method	AAT/NAP
Start	6360	End	10516
GI	4115936	Score	916
Exons	6360..6542, 7398..7451, 8636..8719, 8880..9094, 10199..10298, 10418..10516		
GI Descrip.	(AF118223) No definition line found [Arabidopsis thaliana]		

Seq. No.	21060	Seq. ID	OJ990817_12.0103.C16
Gene No.	43980	Strand	-
Start	16909	End	17361
Name	OJ990817_12.0103.C16.o3.tm	Method	TBLASTX:Maize
Start	180	End	573
GI	none	Score	216
Exons	180..209, 203..253, 372..476, 379..573, 386..571, 432..572		

Seq. No.	21060	Seq. ID	OJ990817_12.0103.C16
Gene No.	43980	Strand	-
Start	16909	End	17361
Name	OJ990817_12.0103.C16.o3.ts	Method	TBLASTX:Soybean
Start	440	End	576
GI	none	Score	126
Exons	440..556, 451..576		

Seq. No.	21060	Seq. ID	OJ990817_12.0103.C16
Gene No.	43980	Strand	-
Start	16909	End	17361
Name	OJ990817_12.0103.C16.o1.ts	Method	TBLASTX:Soybean
Start	3900	End	4331
GI	none	Score	123
Exons	3900..4331, 3901..4314		

Seq. No.	21060	Seq. ID	OJ990817_12.0103.C16
Gene No.	43980	Strand	-
Start	16909	End	17361
Name	OJ990817_12.0103.C16.o1.tm	Method	TBLASTX:Maize
Start	3903	End	4925
GI	none	Score	194
Exons	3903..4643, 3913..4545, 4323..4643, 4345..4659, 4353..4514, 4545..4679, 4791..4925		

Seq. No.	21060	Seq. ID	OJ990817_12.0103.C16
Gene No.	43980	Strand	-
Start	16909	End	17361

Name	OJ990817_12.0103.C16.o3.tc	Method	TBLASTX:Cress
Start	3906	End	4214
GI	none	Score	69
Exons	3906..4214, 3913..4212		
Seq. No.	21060	Seq. ID	OJ990817_12.0103.C16
Gene No.	43980	Strand	-
Start	16909	End	17361
Name	OJ990817_12.0103.C16.o2.tw	Method	TBLASTX:Wheat
Start	4209	End	4682
GI	none	Score	256
Exons	4209..4682		
Seq. No.	21060	Seq. ID	OJ990817_12.0103.C16
Gene No.	43980	Strand	-
Start	16909	End	17361
Name	OJ990817_12.0103.C16.o1.tc	Method	TBLASTX:Cress
Start	4230	End	4949
GI	none	Score	112
Exons	4230..4343, 4284..4478, 4338..4613, 4345..4659, 4350..4688, 4809..4949		
Seq. No.	21060	Seq. ID	OJ990817_12.0103.C16
Gene No.	43980	Strand	-
Start	16909	End	17361
Name	OJ990817_12.0103.C16.o2.tm	Method	TBLASTX:Maize
Start	6158	End	10580
GI	none	Score	36
Exons	6158..6250, 6208..6228, 6236..6328, 6238..6330, 6238..6333, 6330..6542, 6340..6420, 6344..6562, 6345..6542, 6421..6591, 6442..6543, 7398..7451, 7402..7452, 8633..8758, 8635..8724, 8852..8950, 8859..9062, 8860..9096, 8860..9093, 9017..9094, 10185..10301, 10196..10360, 10200..10307, 10415..10579, 10419..10580		
Seq. No.	21060	Seq. ID	OJ990817_12.0103.C16
Gene No.	43980	Strand	-
Start	16909	End	17361
Name	OJ990817_12.0103.C16.o2.ts	Method	TBLASTX:Soybean
Start	6405	End	10517
GI	none	Score	146
Exons	6405..6542, 6421..6543, 6442..6546, 7398..7451, 8633..8758, 8645..8719, 8679..8759, 8766..8792, 8846..8947, 8860..9096, 8877..9062, 9026..9091, 10185..10298, 10188..10307, 10415..10516, 10419..10517		
Seq. No.	21060	Seq. ID	OJ990817_12.0103.C16
Gene No.	43980	Strand	-
Start	16909	End	17361
Name	OJ990817_12.0103.C16.o2.tc	Method	TBLASTX:Cress
Start	8633	End	10517
GI	none	Score	62
Exons	8633..8719, 8633..8758, 8852..8947, 8860..9096, 8877..9062, 9020..9094, 10185..10301, 10200..10301, 10415..10516, 10419..10517		
Seq. No.	21060	Seq. ID	OJ990817_12.0103.C16

Gene No.	43980	Strand	-
Start	16909	End	17361
Name	OJ990817_12.0103.C16.o1.tw	Method	TBLASTX:Wheat
Start	8659	End	10565
GI	none	Score	91
Exons	8659..8724, 8659..8718, 8660..8758, 8679..8750, 8846..8953, 8859..9062, 8860..9096, 9017..9094, 10185..10301, 10188..10307, 10415..10516, 10419..10565		

Seq. No.	21060	Seq. ID	OJ990817_12.0103.C16
Gene No.	43980	Strand	-
Start	16909	End	17361
Name	OJ990817_12.0103.C16.o3.gs	Method	GENSCAN
Start	16909	End	17361
GI	none	Score	.91
Exons	16909..17048, 17322..17361		

Seq. No.	21061	Seq. ID	OJ990817_12.0103.C17
Gene No.	43981	Strand	+
Start	3127	End	4534
Name	OJ990817_12.0103.C17.o2.gp	Method	AAT/GAP
Start	3127	End	4398
GI	2275846	Score	882
Exons	3127..3166, 3360..3553, 4144..4398		

Seq. No.	21061	Seq. ID	OJ990817_12.0103.C17
Gene No.	43981	Strand	+
Start	3127	End	4534
Name	OJ990817_12.0103.C17.o1.np	Method	AAT/NAP
Start	4178	End	4534
GI	6136502	Score	276
Exons	4178..4534		
GI Descrip.	YCF20-LIKE PROTEIN gi 3335348 (AC004512) T8F5.20 [Arabidopsis thaliana]		

Seq. No.	21061	Seq. ID	OJ990817_12.0103.C17
Gene No.	43982	Strand	-
Start	1156	End	2853
Name	OJ990817_12.0103.C17.o1.gp	Method	AAT/GAP
Start	1156	End	2853
GI	none	Score	806
Exons	1156..1357, 2588..2853		

Seq. No.	21061	Seq. ID	OJ990817_12.0103.C17
Gene No.	43983	Strand	-
Start	4268	End	4564
Name	OJ990817_12.0103.C17.o1.tm	Method	TBLASTX:Maize
Start	1227	End	2761
GI	none	Score	158
Exons	1227..1358, 1229..1360, 1230..1358, 1238..1360, 2564..2632, 2586..2756, 2588..2758, 2693..2761		

Seq. No.	21061	Seq. ID	OJ990817_12.0103.C17
Gene No.	43983	Strand	-
Start	4268	End	4564
Name	OJ990817_12.0103.C17.o2.gs	Method	GENSCAN
Start	4268	End	4551

GI	none	Score	.48
Exons	4268..4551		
Seq. No.	21061	Seq. ID	OJ990817_12.0103.C17
Gene No.	43983	Strand	-
Start	4268	End	4564
Name	OJ990817_12.0103.C17.o2.tm	Method	TBLASTX:Maize
Start	4291	End	4525
GI	none	Score	160
Exons	4291..4425, 4304..4438, 4439..4525, 4445..4525		
Seq. No.	21061	Seq. ID	OJ990817_12.0103.C17
Gene No.	43983	Strand	-
Start	4268	End	4564
Name	OJ990817_12.0103.C17.o1.ts	Method	TBLASTX:Soybean
Start	4327	End	4564
GI	none	Score	126
Exons	4327..4425, 4328..4426, 4445..4564, 4475..4555		
Seq. No.	21062	Seq. ID	OJ990817_12.0103.C18
Gene No.	43984	Strand	+
Start	1	End	146
Name	OJ990817_12.0103.C18.o1.np	Method	AAT/NAP
Start	1	End	146
GI	6136502	Score	96
Exons	1..146		
GI Descrip.	YCF20-LIKE PROTEIN gi 3335348 (AC004512) T8F5.20 [Arabidopsis thaliana]		
Seq. No.	21062	Seq. ID	OJ990817_12.0103.C18
Gene No.	43985	Strand	-
Start	576	End	1324
Name	OJ990817_12.0103.C18.o1.gs	Method	GENSCAN
Start	576	End	1319
GI	none	Score	.74
Exons	576..1319		
Seq. No.	21062	Seq. ID	OJ990817_12.0103.C18
Gene No.	43985	Strand	-
Start	576	End	1324
Name	OJ990817_12.0103.C18.o2.np	Method	AAT/NAP
Start	585	End	1324
GI	4454015	Score	518
Exons	585..1324		
GI Descrip.	(AL035396) putative protein [Arabidopsis thaliana]		
Seq. No.	21062	Seq. ID	OJ990817_12.0103.C18
Gene No.	43985	Strand	-
Start	576	End	1324
Name	OJ990817_12.0103.C18.o1.ts	Method	TBLASTX:Soybean
Start	654	End	1040
GI	none	Score	82
Exons	654..752, 810..953, 810..1040, 829..1026		
Seq. No.	21062	Seq. ID	OJ990817_12.0103.C18
Gene No.	43985	Strand	-
Start	576	End	1324

Name	OJ990817_12.0103.C18.o1.tc	Method	TBLASTX:Cress
Start	729	End	1098
GI	none	Score	85
Exons	729..1097, 741..1001, 757..1098		

Seq. No.	21062	Seq. ID	OJ990817_12.0103.C18
Gene No.	43985	Strand	-
Start	576	End	1324
Name	OJ990817_12.0103.C18.o1.tm	Method	TBLASTX:Maize
Start	810	End	1244
GI	none	Score	106
Exons	810..1040, 844..1041, 1059..1244, 1059..1232, 1065..1232		

Seq. No.	21063	Seq. ID	OJ990817_12.0103.C19
Gene No.	43986	Strand	+
Start	309	End	2999
Name	OJ990817_12.0103.C19.o1.gs	Method	GENSCAN
Start	309	End	2999
GI	none	Score	.71
Exons	309..378, 2629..2777, 2913..2999		

Seq. No.	21063	Seq. ID	OJ990817_12.0103.C19
Gene No.	43987	Strand	+
Start	4193	End	5776
Name	OJ990817_12.0103.C19.o1.gp	Method	AAT/GAP
Start	4062	End	4568
GI	47179_1.R1084	Score	861
Exons	4062..4568		
GI Descrip.	'3426039 6.0e-27 (AC005168) unknown protein [Arabidopsis thaliana]'		

Seq. No.	21063	Seq. ID	OJ990817_12.0103.C19
Gene No.	43987	Strand	+
Start	4193	End	5776
Name	OJ990817_12.0103.C19.o1.np	Method	AAT/NAP
Start	4177	End	5761
GI	6017099	Score	1547
Exons	4177..5761		
GI Descrip.	(AC009895) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	21063	Seq. ID	OJ990817_12.0103.C19
Gene No.	43987	Strand	+
Start	4193	End	5776
Name	OJ990817_12.0103.C19.o2.gs	Method	GENSCAN
Start	4193	End	5776
GI	none	Score	1
Exons	4193..5776		

Seq. No.	21063	Seq. ID	OJ990817_12.0103.C19
Gene No.	43988	Strand	+
Start	6111	End	7351
Name	OJ990817_12.0103.C19.o2.gp	Method	AAT/GAP
Start	6111	End	7351
GI	5357_1.R1084	Score	2438
Exons	6111..7351		
GI Descrip.	'6002955/gb AAF00224.1 AF171877_1 3.0e-57 (AF171877) cleavage and polyadenylation specificity factor 73 kDa subunit [Homo		

sapiens]'

Seq. No.	21063	Seq. ID	OJ990817_12.0103.C19
Gene No.	43989	Strand	+
Start	9327	End	11049
Name	OJ990817_12.0103.C19.o3.np	Method	AAT/NAP
Start	9327	End	11049
GI	5922619	Score	71
Exons	9327..9363, 10950..11049		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016852 dbj BAA85195.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	21063	Seq. ID	OJ990817_12.0103.C19
Gene No.	43990	Strand	+
Start	13596	End	15311
Name	OJ990817_12.0103.C19.o4.gs	Method	GENSCAN
Start	13596	End	15311
GI	none	Score	.49
Exons	13596..14234, 14288..14342, 14979..15083, 15085..15311		

Seq. No.	21063	Seq. ID	OJ990817_12.0103.C19
Gene No.	43991	Strand	-
Start	6349	End	9056
Name	OJ990817_12.0103.C19.o3.gs	Method	GENSCAN
Start	6349	End	9056
GI	none	Score	.86
Exons	6349..7986, 8042..8077, 8266..8415, 8518..8563, 8669..8766, 8886..9056		

Seq. No.	21063	Seq. ID	OJ990817_12.0103.C19
Gene No.	43991	Strand	-
Start	6349	End	9056
Name	OJ990817_12.0103.C19.o2.np	Method	AAT/NAP
Start	6352	End	9029
GI	6751699	Score	2718
Exons	6352..7986, 8266..8415, 8518..8563, 8669..8766, 8886..9029		
GI Descrip.	(AC018908) putative cleavage and polyadenylation specificity factor [Arabidopsis thaliana]		

Seq. No.	21063	Seq. ID	OJ990817_12.0103.C19
Gene No.	43991	Strand	-
Start	6349	End	9056
Name	OJ990817_12.0103.C19.o3.gp	Method	AAT/GAP
Start	7608	End	8002
GI	uC-osflcyp011a06b1	Score	749
Exons	7608..8002		
GI Descrip.	'1707412/emb CAA65151  6.0e-49 (X95906) Cleavage and Polyadenylation Specifity Factor protein [Bos taurus]'		

Seq. No.	21063	Seq. ID	OJ990817_12.0103.C19
Gene No.	43992	Strand	-
Start	11188	End	11265
Name	OJ990817_12.0103.C19.o4.np	Method	AAT/NAP
Start	11188	End	11265
GI	6630699	Score	99
Exons	11188..11265		

GI Descrip. (AP000969) hypothetical protein [Oryza sativa]  
gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein  
[Oryza sativa]

Seq. No.	21063	Seq. ID	OJ990817_12.0103.C19
Gene No.	43993	Strand	-
Start	16899	End	19012
Name	OJ990817_12.0103.C19.o9.tm	Method	TBLASTX:Maize
Start	1608	End	2013
GI	none	Score	134
Exons	1608..1793, 1610..1699, 1837..1920, 1954..2013		

Seq. No.	21063	Seq. ID	OJ990817_12.0103.C19
Gene No.	43993	Strand	-
Start	16899	End	19012
Name	OJ990817_12.0103.C19.o4.tc	Method	TBLASTX:Cress
Start	4214	End	4447
GI	none	Score	265
Exons	4214..4447, 4237..4443		

Seq. No.	21063	Seq. ID	OJ990817_12.0103.C19
Gene No.	43993	Strand	-
Start	16899	End	19012
Name	OJ990817_12.0103.C19.o4.ts	Method	TBLASTX:Soybean
Start	4214	End	4591
GI	none	Score	254
Exons	4214..4471, 4220..4279, 4240..4470, 4504..4590, 4505..4591		

Seq. No.	21063	Seq. ID	OJ990817_12.0103.C19
Gene No.	43993	Strand	-
Start	16899	End	19012
Name	OJ990817_12.0103.C19.o4.tm	Method	TBLASTX:Maize
Start	4220	End	4651
GI	none	Score	282
Exons	4220..4447, 4226..4285, 4237..4461, 4504..4527, 4546..4650, 4547..4651		

Seq. No.	21063	Seq. ID	OJ990817_12.0103.C19
Gene No.	43993	Strand	-
Start	16899	End	19012
Name	OJ990817_12.0103.C19.o1.tc	Method	TBLASTX:Cress
Start	4538	End	5422
GI	none	Score	688
Exons	4538..5122, 4540..5121, 5125..5313, 5126..5329, 5330..5368, 5374..5421, 5381..5422		

Seq. No.	21063	Seq. ID	OJ990817_12.0103.C19
Gene No.	43993	Strand	-
Start	16899	End	19012
Name	OJ990817_12.0103.C19.o5.ts	Method	TBLASTX:Soybean
Start	4630	End	4888
GI	none	Score	276
Exons	4630..4866, 4649..4888		

Seq. No.	21063	Seq. ID	OJ990817_12.0103.C19
Gene No.	43993	Strand	-
Start	16899	End	19012



Name	OJ990817_12.0103.C19.o2.tm	Method	TBLASTX:Maize
Start	4697	End	5524
GI	none	Score	537
Exons	4697..5122, 4699..5124, 5054..5329, 5119..5313, 5327..5368, 5381..5431, 5492..5524		

Seq. No.	21063	Seq. ID	OJ990817_12.0103.C19
Gene No.	43993	Strand	-
Start	16899	End	19012
Name	OJ990817_12.0103.C19.o2.ts	Method	TBLASTX:Soybean
Start	4940	End	5377
GI	none	Score	253
Exons	4940..5119, 4960..5118, 5119..5310, 5120..5329, 5327..5377		

Seq. No.	21063	Seq. ID	OJ990817_12.0103.C19
Gene No.	43993	Strand	-
Start	16899	End	19012
Name	OJ990817_12.0103.C19.o6.tm	Method	TBLASTX:Maize
Start	6250	End	6556
GI	none	Score	278
Exons	6250..6300, 6344..6556, 6349..6555		

Seq. No.	21063	Seq. ID	OJ990817_12.0103.C19
Gene No.	43993	Strand	-
Start	16899	End	19012
Name	OJ990817_12.0103.C19.o5.tc	Method	TBLASTX:Cress
Start	6349	End	6531
GI	none	Score	118
Exons	6349..6531, 6365..6529		

Seq. No.	21063	Seq. ID	OJ990817_12.0103.C19
Gene No.	43993	Strand	-
Start	16899	End	19012
Name	OJ990817_12.0103.C19.o1.ts	Method	TBLASTX:Soybean
Start	6355	End	7620
GI	none	Score	98
Exons	6355..6597, 6361..6768, 6362..6769, 6645..6773, 6794..7516, 6797..7513, 6802..7515, 7510..7620, 7511..7615		

Seq. No.	21063	Seq. ID	OJ990817_12.0103.C19
Gene No.	43993	Strand	-
Start	16899	End	19012
Name	OJ990817_12.0103.C19.o1.tm	Method	TBLASTX:Maize
Start	6556	End	7170
GI	none	Score	421
Exons	6556..6885, 6557..6892, 6557..6892, 6814..6894, 6886..7170, 6887..7150, 6897..7151, 6898..7164		

Seq. No.	21063	Seq. ID	OJ990817_12.0103.C19
Gene No.	43993	Strand	-
Start	16899	End	19012
Name	OJ990817_12.0103.C19.o2.tc	Method	TBLASTX:Cress
Start	6794	End	7248
GI	none	Score	338
Exons	6794..7240, 6802..7245, 6814..7248		

Seq. No.	21063	Seq. ID	OJ990817_12.0103.C19
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Gene No.	43993	Strand	-
Start	16899	End	19012
Name	OJ990817_12.0103.C19.o3.tm	Method	TBLASTX:Maize
Start	7280	End	7588
GI	none	Score	41
Exons	7280..7315, 7286..7315, 7294..7587, 7306..7587, 7307..7588		

Seq. No.	21063	Seq. ID	OJ990817_12.0103.C19
Gene No.	43993	Strand	-
Start	16899	End	19012
Name	OJ990817_12.0103.C19.o7.tm	Method	TBLASTX:Maize
Start	7623	End	7935
GI	none	Score	45
Exons	7623..7679, 7624..7731, 7658..7717, 7729..7935		

Seq. No.	21063	Seq. ID	OJ990817_12.0103.C19
Gene No.	43993	Strand	-
Start	16899	End	19012
Name	OJ990817_12.0103.C19.o3.tc	Method	TBLASTX:Cress
Start	7682	End	9002
GI	none	Score	111
Exons	7682..7816, 7684..8016, 7684..7992, 8227..8418, 8238..8417, 8263..8436, 8476..8577, 8665..8766, 8672..8767, 8886..9002, 8887..8982		

Seq. No.	21063	Seq. ID	OJ990817_12.0103.C19
Gene No.	43993	Strand	-
Start	16899	End	19012
Name	OJ990817_12.0103.C19.o3.ts	Method	TBLASTX:Soybean
Start	7743	End	7954
GI	none	Score	147
Exons	7743..7943, 7747..7947, 7747..7953, 7880..7954		

Seq. No.	21063	Seq. ID	OJ990817_12.0103.C19
Gene No.	43993	Strand	-
Start	16899	End	19012
Name	OJ990817_12.0103.C19.o5.tm	Method	TBLASTX:Maize
Start	8278	End	9003
GI	none	Score	140
Exons	8278..8409, 8278..8436, 8283..8429, 8476..8577, 8495..8590, 8665..8766, 8666..8767, 8669..8764, 8716..8766, 8886..8975, 8886..9002, 8887..9003		

Seq. No.	21063	Seq. ID	OJ990817_12.0103.C19
Gene No.	43993	Strand	-
Start	16899	End	19012
Name	OJ990817_12.0103.C19.o6.ts	Method	TBLASTX:Soybean
Start	8548	End	9002
GI	none	Score	99
Exons	8548..8577, 8665..8766, 8672..8767, 8886..9002		

Seq. No.	21063	Seq. ID	OJ990817_12.0103.C19
Gene No.	43993	Strand	-
Start	16899	End	19012
Name	OJ990817_12.0103.C19.o7.ts	Method	TBLASTX:Soybean
Start	13911	End	15269
GI	none	Score	98

Exons 13911..14111, 14973..15041, 14978..15040, 15108..15269,  
15118..15171

Seq. No.	21063	Seq. ID	OJ990817_12.0103.C19
Gene No.	43993	Strand	-
Start	16899	End	19012
Name	OJ990817_12.0103.C19.o8.tm	Method	TBLASTX:Maize
Start	14168	End	15260
GI	none	Score	97
Exons	14168..14263, 14172..14264, 14966..15031, 14973..15038, 14976..15038, 14978..15040, 15098..15199, 15102..15260, 15118..15186, 15131..15211, 15132..15215		

Seq. No.	21063	Seq. ID	OJ990817_12.0103.C19
Gene No.	43993	Strand	-
Start	16899	End	19012
Name	OJ990817_12.0103.C19.o5.gs	Method	GENSCAN
Start	16899	End	19012
GI	none	Score	.68
Exons	16899..17017, 17524..17660, 18936..19012		

Seq. No.	21064	Seq. ID	OJ990817_12.0103.C20
Gene No.	43994	Strand	+
Start	444	End	2821
Name	OJ990817_12.0103.C20.o1.ts	Method	TBLASTX:Soybean
Start	408	End	1277
GI	none	Score	48
Exons	408..488, 534..635, 756..854, 1037..1264, 1043..1084, 1044..1277, 1130..1231		

Seq. No.	21064	Seq. ID	OJ990817_12.0103.C20
Gene No.	43994	Strand	+
Start	444	End	2821
Name	OJ990817_12.0103.C20.o1.tc	Method	TBLASTX:Cress
Start	420	End	1277
GI	none	Score	45
Exons	420..488, 534..635, 756..821, 1043..1192, 1043..1087, 1044..1277, 1136..1231		

Seq. No.	21064	Seq. ID	OJ990817_12.0103.C20
Gene No.	43994	Strand	+
Start	444	End	2821
Name	OJ990817_12.0103.C20.o1.gs	Method	GENSCAN
Start	444	End	2821
GI	none	Score	.72
Exons	444..936, 1044..1147, 2381..2821		

Seq. No.	21064	Seq. ID	OJ990817_12.0103.C20
Gene No.	43994	Strand	+
Start	444	End	2821
Name	OJ990817_12.0103.C20.o1.np	Method	AAT/NAP
Start	639	End	1341
GI	6598449	Score	231
Exons	639..911, 1044..1341		
GI Descrip.	(AC005170) similar to senescence-associated protein [Arabidopsis thaliana]		

Seq. No.	21064	Seq. ID	OJ990817_12.0103.C20
Gene No.	43994	Strand	+
Start	444	End	2821
Name	OJ990817_12.0103.C20.o1.tm	Method	TBLASTX:Maize
Start	759	End	1292
GI	none	Score	83
Exons	759..821, 1037..1081, 1042..1080, 1044..1091, 1097..1237, 1128..1292, 1136..1264		

Seq. No.	21065	Seq. ID	OJ990817_12.0103.C21
Gene No.	43995	Strand	+
Start	1261	End	6907
Name	OJ990817_12.0103.C21.o1.np	Method	AAT/NAP
Start	1261	End	6907
GI	6498441	Score	6799
Exons	1261..2324, 2655..3118, 3182..3555, 3739..3873, 4048..4396, 4589..4963, 5135..6532, 6626..6907		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	21065	Seq. ID	OJ990817_12.0103.C21
Gene No.	43996	Strand	+
Start	7072	End	7536
Name	OJ990817_12.0103.C21.o1.gp	Method	AAT/GAP
Start	7072	End	7536
GI	2428323	Score	629
Exons	7072..7536		
GI Descrip.	5803242/dbj AP000399.1 AP000399 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04		

Seq. No.	21065	Seq. ID	OJ990817_12.0103.C21
Gene No.	43997	Strand	-
Start	7544	End	10780
Name	OJ990817_12.0103.C21.o2.gs	Method	GENSCAN
Start	7544	End	10780
GI	none	Score	.83
Exons	7544..10780		

Seq. No.	21065	Seq. ID	OJ990817_12.0103.C21
Gene No.	43997	Strand	-
Start	7544	End	10780
Name	OJ990817_12.0103.C21.o2.np	Method	AAT/NAP
Start	7547	End	10780
GI	6907089	Score	4198
Exons	7547..9425, 9519..10780		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	21065	Seq. ID	OJ990817_12.0103.C21
Gene No.	43998	Strand	-
Start	11628	End	12474
Name	OJ990817_12.0103.C21.o6.tw	Method	TBLASTX:Wheat
Start	1409	End	1801
GI	none	Score	58
Exons	1409..1456, 1463..1561, 1480..1560, 1528..1767, 1544..1801		

Seq. No.	21065	Seq. ID	OJ990817_12.0103.C21
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Gene No.	43998	Strand	-
Start	11628	End	12474
Name	OJ990817_12.0103.C21.o4.tm	Method	TBLASTX:Maize
Start	1414	End	1699
GI	none	Score	185
Exons	1414..1698, 1451..1699		
Seq. No.	21065	Seq. ID	OJ990817_12.0103.C21
Gene No.	43998	Strand	-
Start	11628	End	12474
Name	OJ990817_12.0103.C21.o3.tw	Method	TBLASTX:Wheat
Start	2539	End	3025
GI	none	Score	407
Exons	2539..2712, 2540..3025, 2734..3021		
Seq. No.	21065	Seq. ID	OJ990817_12.0103.C21
Gene No.	43998	Strand	-
Start	11628	End	12474
Name	OJ990817_12.0103.C21.o1.tw	Method	TBLASTX:Wheat
Start	3189	End	3652
GI	none	Score	215
Exons	3189..3650, 3190..3651, 3191..3652, 3191..3652		
Seq. No.	21065	Seq. ID	OJ990817_12.0103.C21
Gene No.	43998	Strand	-
Start	11628	End	12474
Name	OJ990817_12.0103.C21.o1.tm	Method	TBLASTX:Maize
Start	3320	End	3676
GI	none	Score	392
Exons	3320..3676, 3355..3666, 3371..3676		
Seq. No.	21065	Seq. ID	OJ990817_12.0103.C21
Gene No.	43998	Strand	-
Start	11628	End	12474
Name	OJ990817_12.0103.C21.o3.tm	Method	TBLASTX:Maize
Start	3703	End	4087
GI	none	Score	354
Exons	3703..3789, 3704..4087, 3847..4068		
Seq. No.	21065	Seq. ID	OJ990817_12.0103.C21
Gene No.	43998	Strand	-
Start	11628	End	12474
Name	OJ990817_12.0103.C21.o2.tw	Method	TBLASTX:Wheat
Start	3761	End	4185
GI	none	Score	481
Exons	3761..4180, 3762..3950, 3859..4185		
Seq. No.	21065	Seq. ID	OJ990817_12.0103.C21
Gene No.	43998	Strand	-
Start	11628	End	12474
Name	OJ990817_12.0103.C21.o1.ts	Method	TBLASTX:Soybean
Start	3839	End	4210
GI	none	Score	275
Exons	3839..4210, 3856..3999		
Seq. No.	21065	Seq. ID	OJ990817_12.0103.C21
Gene No.	43998	Strand	-

Start	11628	End	12474
Name	OJ990817_12.0103.C21.o5.tw	Method	TBLASTX:Wheat
Start	4811	End	5269
GI	none	Score	234
Exons	4811..5059, 4835..5059, 4900..5073, 5120..5269, 5131..5268		

Seq. No.	21065	Seq. ID	OJ990817_12.0103.C21
Gene No.	43998	Strand	-
Start	11628	End	12474
Name	OJ990817_12.0103.C21.o2.ts	Method	TBLASTX:Soybean
Start	4958	End	5524
GI	5666795	Score	68
Exons	4958..5056, 5132..5269, 5324..5524		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	21065	Seq. ID	OJ990817_12.0103.C21
Gene No.	43998	Strand	-
Start	11628	End	12474
Name	OJ990817_12.0103.C21.o8.tw	Method	TBLASTX:Wheat
Start	5272	End	5584
GI	none	Score	192
Exons	5272..5448, 5324..5584		

Seq. No.	21065	Seq. ID	OJ990817_12.0103.C21
Gene No.	43998	Strand	-
Start	11628	End	12474
Name	OJ990817_12.0103.C21.o2.tm	Method	TBLASTX:Maize
Start	5777	End	6100
GI	none	Score	363
Exons	5777..6100, 5794..6087		

Seq. No.	21065	Seq. ID	OJ990817_12.0103.C21
Gene No.	43998	Strand	-
Start	11628	End	12474
Name	OJ990817_12.0103.C21.o4.tw	Method	TBLASTX:Wheat
Start	5914	End	6295
GI	none	Score	375
Exons	5914..5970, 5915..6295, 6016..6264		

Seq. No.	21065	Seq. ID	OJ990817_12.0103.C21
Gene No.	43998	Strand	-
Start	11628	End	12474
Name	OJ990817_12.0103.C21.o7.tw	Method	TBLASTX:Wheat
Start	6296	End	6898
GI	none	Score	262
Exons	6296..6580, 6301..6579, 6772..6894, 6773..6898		

Seq. No.	21065	Seq. ID	OJ990817_12.0103.C21
Gene No.	43998	Strand	-
Start	11628	End	12474
Name	OJ990817_12.0103.C21.o5.tm	Method	TBLASTX:Maize
Start	6767	End	6907
GI	none	Score	183
Exons	6767..6907, 6772..6906		

Seq. No.	21065	Seq. ID	OJ990817_12.0103.C21
Gene No.	43998	Strand	-

Start	11628	End	12474
Name	OJ990817_12.0103.C21.o3.np	Method	AAT/NAP
Start	11628	End	12474
GI	5922623	Score	345
Exons	11628..11698, 11866..12013, 12394..12474		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016856 dbj BAA85199.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	21066	Seq. ID	OJ990817_12.0103.C22
Gene No.	43999	Strand	+
Start	710	End	4683
Name	OJ990817_12.0103.C22.o1.np	Method	AAT/NAP
Start	710	End	4683
GI	4539658	Score	37
Exons	710..789, 2064..2244, 4671..4683		
GI Descrip.	(AF061282) serine carboxypeptidase-like protein [Sorghum bicolor]		

Seq. No.	21066	Seq. ID	OJ990817_12.0103.C22
Gene No.	44000	Strand	+
Start	6736	End	7158
Name	OJ990817_12.0103.C22.o1.gp	Method	AAT/GAP
Start	6736	End	7158
GI	LIB3477-003-P1-K1-E9	Score	133
Exons	6736..6824, 7130..7158		
GI Descrip.	'2498586/sp Q40638 MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	21066	Seq. ID	OJ990817_12.0103.C22
Gene No.	44001	Strand	+
Start	10342	End	11806
Name	OJ990817_12.0103.C22.o4.gs	Method	GENSCAN
Start	10342	End	11806
GI	none	Score	.51
Exons	10342..10869, 11112..11201, 11381..11716, 11747..11806		

Seq. No.	21066	Seq. ID	OJ990817_12.0103.C22
Gene No.	44001	Strand	+
Start	10342	End	11806
Name	OJ990817_12.0103.C22.o2.np	Method	AAT/NAP
Start	10629	End	11717
GI	3608128	Score	425
Exons	10629..10869, 11286..11404, 11549..11717		
GI Descrip.	(AC005314) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	21066	Seq. ID	OJ990817_12.0103.C22
Gene No.	44002	Strand	-
Start	5053	End	5335
Name	OJ990817_12.0103.C22.o2.gs	Method	GENSCAN
Start	5053	End	5335
GI	none	Score	.8
Exons	5053..5168, 5236..5335		

Seq. No.	21066	Seq. ID	OJ990817_12.0103.C22
Gene No.	44003	Strand	-

Start	5571	End	9354
Name	OJ990817_12.0103.C22.o3.gs	Method	GENSCAN
Start	5571	End	9354
GI	none	Score	.44
Exons	5571..5709, 7112..7267, 7923..8031, 8540..8573, 9283..9354		

Seq. No.	21066	Seq. ID	OJ990817_12.0103.C22
Gene No.	44004	Strand	-
Start	12610	End	12740
Name	OJ990817_12.0103.C22.o1.tm	Method	TBLASTX:Maize
Start	10626	End	10875
GI	none	Score	292
Exons	10626..10829, 10642..10875		

Seq. No.	21066	Seq. ID	OJ990817_12.0103.C22
Gene No.	44004	Strand	-
Start	12610	End	12740
Name	OJ990817_12.0103.C22.o1.ts	Method	TBLASTX:Soybean
Start	10704	End	10877
GI	none	Score	207
Exons	10704..10877, 10705..10848		

Seq. No.	21066	Seq. ID	OJ990817_12.0103.C22
Gene No.	44004	Strand	-
Start	12610	End	12740
Name	OJ990817_12.0103.C22.o5.gs	Method	GENSCAN
Start	12610	End	12740
GI	none	Score	.57
Exons	12610..12740		

Seq. No.	21067	Seq. ID	OJ990817_12.0103.C23
Gene No.	44005	Strand	-
Start	782	End	1147
Name	OJ990817_12.0103.C23.o1.gs	Method	GENSCAN
Start	782	End	1138
GI	none	Score	.87
Exons	782..1138		

Seq. No.	21067	Seq. ID	OJ990817_12.0103.C23
Gene No.	44005	Strand	-
Start	782	End	1147
Name	OJ990817_12.0103.C23.o1.ts	Method	TBLASTX:Soybean
Start	806	End	1147
GI	none	Score	139
Exons	806..967, 816..932, 983..1141, 993..1139, 1007..1147		

Seq. No.	21067	Seq. ID	OJ990817_12.0103.C23
Gene No.	44005	Strand	-
Start	782	End	1147
Name	OJ990817_12.0103.C23.o1.tc	Method	TBLASTX:Cress
Start	827	End	1139
GI	none	Score	95
Exons	827..967, 828..932, 851..961, 859..972, 968..1138, 981..1139		

Seq. No.	21068	Seq. ID	OJ990817_12.0103.C24
Gene No.	44006	Strand	+
Start	1	End	122



Name	OJ990817_12.0103.C24.o1.np	Method	AAT/NAP
Start	1	End	122
GI	4539660	Score	136
Exons	1..122		
GI Descrip.	(AF061282) polyprotein [Sorghum bicolor]		

Seq. No.	21068	Seq. ID	OJ990817_12.0103.C24
Gene No.	44006	Strand	+
Start	1	End	122
Name	OJ990817_12.0103.C24.o1.tm	Method	TBLASTX:Maize
Start	2	End	122
GI	none	Score	92
Exons	2..118, 2..121, 3..122, 6..122		

Seq. No.	21069	Seq. ID	OJ990817_12.0103.C25
Gene No.	44007	Strand	+
Start	218	End	244
Name	OJ990817_12.0103.C25.o1.gs	Method	GENSCAN
Start	218	End	244
GI	none	Score	.43
Exons	218..244		

Seq. No.	21069	Seq. ID	OJ990817_12.0103.C25
Gene No.	44008	Strand	-
Start	1	End	369
Name	OJ990817_12.0103.C25.o1.np	Method	AAT/NAP
Start	1	End	369
GI	6907086	Score	384
Exons	1..369		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	21070	Seq. ID	OJ990817_12.0103.C26
Gene No.	44009	Strand	-
Start	106	End	338
Name	OJ990817_12.0103.C26.o1.tm	Method	TBLASTX:Maize
Start	100	End	338
GI	none	Score	168
Exons	100..240, 102..338, 104..337		

Seq. No.	21070	Seq. ID	OJ990817_12.0103.C26
Gene No.	44009	Strand	-
Start	106	End	338
Name	OJ990817_12.0103.C26.o1.tc	Method	TBLASTX:Cress
Start	104	End	257
GI	none	Score	122
Exons	104..256, 105..257		

Seq. No.	21070	Seq. ID	OJ990817_12.0103.C26
Gene No.	44009	Strand	-
Start	106	End	338
Name	OJ990817_12.0103.C26.o1.ts	Method	TBLASTX:Soybean
Start	104	End	335
GI	none	Score	153
Exons	104..325, 104..334, 105..335		

Seq. No.	21070	Seq. ID	OJ990817_12.0103.C26
Gene No.	44009	Strand	-

Start 106  
 Name OJ990817\_12.0103.C26.o1.gs  
 Start 106  
 GI none  
 Exons 106..325

End 338  
 Method GENSCAN  
 End 325  
 Score .42

Seq. No. 21071  
 Gene No. 44010  
 Start 937  
 Name OJ990917\_15.0112.C2.o1.gs  
 Start 937  
 GI none  
 Exons 937..1161, 1189..1338

Seq. ID OJ990917\_15.0112.C2  
 Strand +  
 End 1338  
 Method GENSCAN  
 End 1338  
 Score .71

Seq. No. 21071  
 Gene No. 44011  
 Start 1942  
 Name OJ990917\_15.0112.C2.o2.gs  
 Start 1942  
 GI none  
 Exons 1942..2110

Seq. ID OJ990917\_15.0112.C2  
 Strand -  
 End 2110  
 Method GENSCAN  
 End 2110  
 Score .62

Seq. No. 21072  
 Gene No. 44012  
 Start 1  
 Name OJ990917\_15.0112.C3.o1.np  
 Start 1  
 GI 6598595  
 Exons 1..28, 2059..2509

Seq. ID OJ990917\_15.0112.C3  
 Strand -  
 End 3346  
 Method AAT/NAP  
 End 2509  
 Score 142

GI Descrip. (AC006527) putative Athila retroelement ORF1 protein  
 [Arabidopsis thaliana]

Seq. No. 21072  
 Gene No. 44012  
 Start 1  
 Name OJ990917\_15.0112.C3.o1.gs  
 Start 242  
 GI none  
 Exons 242..266, 360..420, 801..1032, 1109..1178, 1277..1775,  
 2621..2679, 3239..3346

Seq. ID OJ990917\_15.0112.C3  
 Strand -  
 End 3346  
 Method GENSCAN  
 End 3346  
 Score .53

Seq. No. 21073  
 Gene No. 44013  
 Start 778  
 Name OJ990917\_15.0112.C4.o1.gs  
 Start 778  
 GI none  
 Exons 778..951

Seq. ID OJ990917\_15.0112.C4  
 Strand -  
 End 951  
 Method GENSCAN  
 End 951  
 Score .92

Seq. No. 21074  
 Gene No. 44014  
 Start 712  
 Name OJ990917\_15.0112.C5.o1.gs  
 Start 712  
 GI none  
 Exons 712..733, 1227..1458

Seq. ID OJ990917\_15.0112.C5  
 Strand -  
 End 1458  
 Method GENSCAN  
 End 1458  
 Score .45

Seq. No.	21075	Seq. ID	OJ990917_15.0112.C6
Gene No.	44015	Strand	+
Start	1379	End	6099
Name	OJ990917_15.0112.C6.o1.gs	Method	GENSCAN
Start	1379	End	2215
GI	none	Score	.66
Exons	1379..1660, 1829..2215		

Seq. No.	21075	Seq. ID	OJ990917_15.0112.C6
Gene No.	44015	Strand	+
Start	1379	End	6099
Name	OJ990917_15.0112.C6.o1.np	Method	AAT/NAP
Start	1379	End	3465
GI	4325357	Score	365
Exons	1379..2031, 2787..3465		
GI Descrip.	(AF128395) contains similarity to Arabidopsis thaliana retrotransposon Athila hypothetical protein 1 (GB:X81801) [Arabidopsis thaliana]		

Seq. No.	21075	Seq. ID	OJ990917_15.0112.C6
Gene No.	44015	Strand	+
Start	1379	End	6099
Name	OJ990917_15.0112.C6.o2.gs	Method	GENSCAN
Start	2487	End	6099
GI	none	Score	.91
Exons	2487..2604, 2644..2807, 3020..3245, 3293..3401, 4259..4479, 6020..6099		

Seq. No.	21075	Seq. ID	OJ990917_15.0112.C6
Gene No.	44016	Strand	+
Start	7468	End	16600
Name	OJ990917_15.0112.C6.o3.gs	Method	GENSCAN
Start	7468	End	11327
GI	none	Score	.93
Exons	7468..7619, 7757..8166, 10705..11327		

Seq. No.	21075	Seq. ID	OJ990917_15.0112.C6
Gene No.	44016	Strand	+
Start	7468	End	16600
Name	OJ990917_15.0112.C6.o2.np	Method	AAT/NAP
Start	9678	End	16600
GI	5852180	Score	943
Exons	9678..9725, 10705..10812, 10864..11277, 11980..12116, 12290..12866, 13375..13717, 15140..15227, 16226..16600		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	21075	Seq. ID	OJ990917_15.0112.C6
Gene No.	44016	Strand	+
Start	7468	End	16600
Name	OJ990917_15.0112.C6.o4.gp	Method	AAT/GAP
Start	15328	End	15849
GI	uC-osflM202048c12b1	Score	826
Exons	15328..15849		
GI Descrip.	'5257255/dbj AP000364.1 AP000364 2.0e-16 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	21075	Seq. ID	OJ990917_15.0112.C6
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Gene No. 44016 Strand +  
 Start 7468 End 16600  
 Name OJ990917\_15.0112.C6.o5.gp Method AAT/GAP  
 Start 15990 End 16060  
 GI uC-osrom202024h08a1 Score 82  
 Exons 15990..16060  
 GI Descrip. '5852170/emb|AL117265.1|OST17804 5.0e-84 Oryza sativa  
 indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'

Seq. No. 21075 Seq. ID OJ990917\_15.0112.C6  
 Gene No. 44017 Strand -  
 Start 6911 End 21714  
 Name OJ990917\_15.0112.C6.o4.np Method AAT/NAP  
 Start 6911 End 16994  
 GI 5852175 Score 147  
 Exons 6911..6970, 15366..15478, 16331..16517, 16966..16994  
 GI Descrip. (AL117265) zhb0005.1 [Oryza sativa]

Seq. No. 21075 Seq. ID OJ990917\_15.0112.C6  
 Gene No. 44017 Strand -  
 Start 6911 End 21714  
 Name OJ990917\_15.0112.C6.o2.gp Method AAT/GAP  
 Start 9574 End 9954  
 GI uC-osflcyp033a04b1 Score 648  
 Exons 9574..9954  
 GI Descrip. '6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic  
 DNA, chromosome 1, clone:P0711E10'

Seq. No. 21075 Seq. ID OJ990917\_15.0112.C6  
 Gene No. 44017 Strand -  
 Start 6911 End 21714  
 Name OJ990917\_15.0112.C6.o4.gs Method GENSCAN  
 Start 12017 End 21714  
 GI none Score .66  
 Exons 12017..12132, 12378..12627, 14593..14622, 16380..16458,  
 16518..16630, 16966..16993, 17753..17993, 18177..18263,  
 19291..19322, 20444..20695, 21638..21714

Seq. No. 21075 Seq. ID OJ990917\_15.0112.C6  
 Gene No. 44017 Strand -  
 Start 6911 End 21714  
 Name OJ990917\_15.0112.C6.o3.np Method AAT/NAP  
 Start 17913 End 18434  
 GI 2129618 Score 176  
 Exons 17913..18434  
 GI Descrip. hypothetical protein 1 - Arabidopsis thaliana retrotransposon  
 Athila gi|806535|emb|CAA57397| (X81801) Athila ORF 1  
 [Arabidopsis thaliana]

Seq. No. 21075 Seq. ID OJ990917\_15.0112.C6  
 Gene No. 44018 Strand -  
 Start 22939 End 23190  
 Name OJ990917\_15.0112.C6.o1.ts Method TBLASTX:Soybean  
 Start 1598 End 18324  
 GI none Score 75  
 Exons 1598..1702, 1733..2008, 17956..18219, 18262..18324

Seq. No.	21075	Seq. ID	OJ990917_15.0112.C6
Gene No.	44018	Strand	-
Start	22939	End	23190
Name	OJ990917_15.0112.C6.o1.tw	Method	TBLASTX:Wheat
Start	1598	End	18318
GI	none	Score	96
Exons	1598..1714, 1733..1945, 1919..1993, 18019..18219, 18250..18318		

Seq. No.	21075	Seq. ID	OJ990917_15.0112.C6
Gene No.	44018	Strand	-
Start	22939	End	23190
Name	OJ990917_15.0112.C6.o1.tc	Method	TBLASTX:Cress
Start	1745	End	18219
GI	none	Score	188
Exons	1745..2053, 17911..18219, 18052..18219		

Seq. No.	21075	Seq. ID	OJ990917_15.0112.C6
Gene No.	44018	Strand	-
Start	22939	End	23190
Name	OJ990917_15.0112.C6.o6.gp	Method	AAT/GAP
Start	22939	End	23190
GI	57713_5.R1084	Score	418
Exons	22939..23190		
GI Descrip.	'6015116/sp O82653 ERG_ARATH 3.0e-34 GTP-BINDING PROTEIN ERG >gi_3676071_emb_CAA76979_ (Y17969) ERG protein [Arabidopsis thaliana]'		

Seq. No.	21076	Seq. ID	OJ990917_15.0112.C7
Gene No.	44019	Strand	-
Start	670	End	12611
Name	OJ990917_15.0112.C7.o1.gs	Method	GENSCAN
Start	670	End	12611
GI	none	Score	.41
Exons	670..768, 926..1025, 1116..1223, 1259..1479, 1533..1586, 2306..2338, 2699..2866, 4761..5433, 8116..8204, 8255..8364, 8720..8893, 12596..12611		

Seq. No.	21076	Seq. ID	OJ990917_15.0112.C7
Gene No.	44019	Strand	-
Start	670	End	12611
Name	OJ990917_15.0112.C7.o1.gp	Method	AAT/GAP
Start	926	End	1556
GI	57713_5.R1084	Score	780
Exons	926..1025, 1116..1364, 1451..1556		
GI Descrip.	'6015116/sp O82653 ERG_ARATH 3.0e-34 GTP-BINDING PROTEIN ERG >gi_3676071_emb_CAA76979_ (Y17969) ERG protein [Arabidopsis thaliana]'		

Seq. No.	21076	Seq. ID	OJ990917_15.0112.C7
Gene No.	44019	Strand	-
Start	670	End	12611
Name	OJ990917_15.0112.C7.o1.np	Method	AAT/NAP
Start	4189	End	4806
GI	6721559	Score	401
Exons	4189..4324, 4352..4806		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi 6815084 dbj BAA90370.1  (AP001081) hypothetical protein		

[Oryza sativa]

Seq. No.	21076	Seq. ID	OJ990917_15.0112.C7
Gene No.	44019	Strand	-
Start	670	End	12611
Name	OJ990917_15.0112.C7.o2.np	Method	AAT/NAP
Start	6087	End	6881
GI	4680183	Score	186

Exons 6087..6176, 6784..6881  
 GI Descrip. (AF111709) gag-pol protein [Oryza sativa subsp. indica]

Seq. No.	21077	Seq. ID	OJ990917_15.0112.C8
Gene No.	44020	Strand	-
Start	1	End	1160
Name	OJ990917_15.0112.C8.o1.np	Method	AAT/NAP
Start	1	End	1160
GI	2642431	Score	994

Exons 1..1160  
 GI Descrip. (AC002391) putative retroelement pol polyprotein [Arabidopsis thaliana]

Seq. No.	21077	Seq. ID	OJ990917_15.0112.C8
Gene No.	44020	Strand	-
Start	1	End	1160
Name	OJ990917_15.0112.C8.o3.tc	Method	TBLASTX:Cress
Start	1	End	387
GI	none	Score	112

Exons 1..114, 115..207, 214..387

Seq. No.	21077	Seq. ID	OJ990917_15.0112.C8
Gene No.	44020	Strand	-
Start	1	End	1160
Name	OJ990917_15.0112.C8.o1.tm	Method	TBLASTX:Maize
Start	4	End	396
GI	none	Score	62

Exons 4..396, 41..142, 185..298

Seq. No.	21077	Seq. ID	OJ990917_15.0112.C8
Gene No.	44020	Strand	-
Start	1	End	1160
Name	OJ990917_15.0112.C8.o1.ts	Method	TBLASTX:Soybean
Start	4	End	378
GI	none	Score	178

Exons 4..378, 5..376, 10..378

Seq. No.	21077	Seq. ID	OJ990917_15.0112.C8
Gene No.	44020	Strand	-
Start	1	End	1160
Name	OJ990917_15.0112.C8.o1.gs	Method	GENSCAN
Start	24	End	987
GI	none	Score	.4

Exons 24..987

Seq. No.	21077	Seq. ID	OJ990917_15.0112.C8
Gene No.	44020	Strand	-
Start	1	End	1160
Name	OJ990917_15.0112.C8.o2.tw	Method	TBLASTX:Wheat

Start	142	End	528
GI	none	Score	42
Exons	142..387, 151..186, 257..388, 409..528		

Seq. No.	21077	Seq. ID	OJ990917_15.0112.C8
Gene No.	44020	Strand	-
Start	1	End	1160
Name	OJ990917_15.0112.C8.o3.ts	Method	TBLASTX:Soybean
Start	406	End	585
GI	none	Score	124
Exons	406..585, 440..583		

Seq. No.	21077	Seq. ID	OJ990917_15.0112.C8
Gene No.	44020	Strand	-
Start	1	End	1160
Name	OJ990917_15.0112.C8.o2.tc	Method	TBLASTX:Cress
Start	442	End	720
GI	none	Score	78
Exons	442..720, 446..673		

Seq. No.	21077	Seq. ID	OJ990917_15.0112.C8
Gene No.	44020	Strand	-
Start	1	End	1160
Name	OJ990917_15.0112.C8.o2.tm	Method	TBLASTX:Maize
Start	505	End	945
GI	none	Score	58
Exons	505..945, 770..832		

Seq. No.	21077	Seq. ID	OJ990917_15.0112.C8
Gene No.	44020	Strand	-
Start	1	End	1160
Name	OJ990917_15.0112.C8.o1.tw	Method	TBLASTX:Wheat
Start	538	End	1083
GI	none	Score	54
Exons	538..747, 575..700, 739..1083, 794..925, 971..1027		

Seq. No.	21077	Seq. ID	OJ990917_15.0112.C8
Gene No.	44020	Strand	-
Start	1	End	1160
Name	OJ990917_15.0112.C8.o2.ts	Method	TBLASTX:Soybean
Start	764	End	1155
GI	5509260	Score	109
Exons	764..925, 769..1155, 874..1152		
GI Descrip.	-		

Seq. No.	21077	Seq. ID	OJ990917_15.0112.C8
Gene No.	44020	Strand	-
Start	1	End	1160
Name	OJ990917_15.0112.C8.o1.tc	Method	TBLASTX:Cress
Start	865	End	1134
GI	none	Score	96
Exons	865..1134, 866..1027, 874..1113		

Seq. No.	21077	Seq. ID	OJ990917_15.0112.C8
Gene No.	44020	Strand	-
Start	1	End	1160
Name	OJ990917_15.0112.C8.o3.tm	Method	TBLASTX:Maize

Start 952  
GI none  
Exons 952..1155, 961..1137

End 1155  
Score 75

Seq. No. 21078  
Gene No. 44021  
Start 1000  
Name OJ990917\_15.0112.C9.o4.tm  
Start 112  
GI none  
Exons 112..192, 112..201, 225..428, 478..567, 480..569, 501..560

Seq. ID OJ990917\_15.0112.C9  
Strand -  
End 12211  
Method TBLASTX:Maize  
End 569  
Score 55

Seq. No. 21078  
Gene No. 44021  
Start 1000  
Name OJ990917\_15.0112.C9.o2.np  
Start 1000  
GI 6815671  
Exons 1000..1144, 2750..2773  
GI Descrip. (AF184489) gag protein [Human immunodeficiency virus type 1]

Seq. ID OJ990917\_15.0112.C9  
Strand -  
End 12211  
Method AAT/NAP  
End 2773  
Score 53

Seq. No. 21078  
Gene No. 44021  
Start 1000  
Name OJ990917\_15.0112.C9.o5.tm  
Start 1637  
GI none  
Exons 1637..1933, 1638..1928, 1645..1944

Seq. ID OJ990917\_15.0112.C9  
Strand -  
End 12211  
Method TBLASTX:Maize  
End 1944  
Score 255

Seq. No. 21078  
Gene No. 44021  
Start 1000  
Name OJ990917\_15.0112.C9.o2.gs  
Start 2339  
GI none  
Exons 2339..2548, 5086..5202, 5738..5921, 6155..6300, 6489..6692, 6828..6925, 7455..7874, 8932..9078, 9288..9363

Seq. ID OJ990917\_15.0112.C9  
Strand -  
End 12211  
Method GENSCAN  
End 9363  
Score .41

Seq. No. 21078  
Gene No. 44021  
Start 1000  
Name OJ990917\_15.0112.C9.o1.tm  
Start 5102  
GI none  
Exons 5102..5179, 5237..5299, 5580..5987, 5582..6007, 5980..6252, 5987..6178, 6061..6252, 6247..6339, 6345..6446

Seq. ID OJ990917\_15.0112.C9  
Strand -  
End 12211  
Method TBLASTX:Maize  
End 6446  
Score 101

Seq. No. 21078  
Gene No. 44021  
Start 1000  
Name OJ990917\_15.0112.C9.o4.tw  
Start 5579  
GI none  
Exons 5579..5761, 5585..5893

Seq. ID OJ990917\_15.0112.C9  
Strand -  
End 12211  
Method TBLASTX:Wheat  
End 5893  
Score 67

Seq. No. 21078  
Seq. ID OJ990917\_15.0112.C9



Gene No. 44021  
 Start 1000  
 Name OJ990917\_15.0112.C9.o1.ts  
 Start 5582  
 GI none  
 Exons 5582..6007, 6004..6174

Strand -  
 End 12211  
 Method TBLASTX:Soybean  
 End 6174  
 Score 103

Seq. No. 21078  
 Gene No. 44021  
 Start 1000  
 Name OJ990917\_15.0112.C9.o1.tc  
 Start 5651  
 GI none  
 Exons 5651..6007

Seq. ID OJ990917\_15.0112.C9  
 Strand -  
 End 12211  
 Method TBLASTX:Cress  
 End 6007  
 Score 215

Seq. No. 21078  
 Gene No. 44021  
 Start 1000  
 Name OJ990917\_15.0112.C9.o2.tc  
 Start 6226  
 GI none  
 Exons 6226..6345, 6360..6602

Seq. ID OJ990917\_15.0112.C9  
 Strand -  
 End 12211  
 Method TBLASTX:Cress  
 End 6602  
 Score 172

Seq. No. 21078  
 Gene No. 44021  
 Start 1000  
 Name OJ990917\_15.0112.C9.o2.ts  
 Start 6256  
 GI none  
 Exons 6256..6342, 6360..6665, 6517..6666

Seq. ID OJ990917\_15.0112.C9  
 Strand -  
 End 12211  
 Method TBLASTX:Soybean  
 End 6666  
 Score 86

Seq. No. 21078  
 Gene No. 44021  
 Start 1000  
 Name OJ990917\_15.0112.C9.o7.tm  
 Start 6447  
 GI none  
 Exons 6447..6725, 6448..6684, 6733..6846, 6759..6848, 6885..6923

Seq. ID OJ990917\_15.0112.C9  
 Strand -  
 End 12211  
 Method TBLASTX:Maize  
 End 6923  
 Score 99

Seq. No. 21078  
 Gene No. 44021  
 Start 1000  
 Name OJ990917\_15.0112.C9.o3.np  
 Start 9023  
 GI 6466937  
 Exons 9023..9080, 9968..12211

Seq. ID OJ990917\_15.0112.C9  
 Strand -  
 End 12211  
 Method AAT/NAP  
 End 12211  
 Score 1435

GI Descrip. (AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]

Seq. No. 21078  
 Gene No. 44021  
 Start 1000  
 Name OJ990917\_15.0112.C9.o3.gs  
 Start 10046  
 GI none  
 Exons 10046..10902, 11130..12128

Seq. ID OJ990917\_15.0112.C9  
 Strand -  
 End 12211  
 Method GENSCAN  
 End 12128  
 Score .75

Seq. No.	21078	Seq. ID	OJ990917_15.0112.C9
Gene No.	44021	Strand	-
Start	1000	End	12211
Name	OJ990917_15.0112.C9.o6.tm	Method	TBLASTX:Maize
Start	10058	End	10540
GI	none	Score	238
Exons	10058..10246, 10229..10540		

Seq. No.	21078	Seq. ID	OJ990917_15.0112.C9
Gene No.	44021	Strand	-
Start	1000	End	12211
Name	OJ990917_15.0112.C9.o1.tw	Method	TBLASTX:Wheat
Start	10424	End	11017
GI	none	Score	114
Exons	10424..10540, 10631..11017, 10680..10922		

Seq. No.	21078	Seq. ID	OJ990917_15.0112.C9
Gene No.	44021	Strand	-
Start	1000	End	12211
Name	OJ990917_15.0112.C9.o2.tm	Method	TBLASTX:Maize
Start	10635	End	11271
GI	none	Score	129
Exons	10635..10922, 10637..11017, 10664..11008, 10937..11269, 11014..11097, 11158..11271		

Seq. No.	21078	Seq. ID	OJ990917_15.0112.C9
Gene No.	44021	Strand	-
Start	1000	End	12211
Name	OJ990917_15.0112.C9.o3.ts	Method	TBLASTX:Soybean
Start	10865	End	11250
GI	none	Score	152
Exons	10865..11017, 10994..11239, 11014..11250, 11017..11241		

Seq. No.	21078	Seq. ID	OJ990917_15.0112.C9
Gene No.	44021	Strand	-
Start	1000	End	12211
Name	OJ990917_15.0112.C9.o2.tw	Method	TBLASTX:Wheat
Start	11111	End	11541
GI	none	Score	53
Exons	11111..11320, 11152..11313, 11305..11541, 11434..11535		

Seq. No.	21078	Seq. ID	OJ990917_15.0112.C9
Gene No.	44021	Strand	-
Start	1000	End	12211
Name	OJ990917_15.0112.C9.o8.tm	Method	TBLASTX:Maize
Start	11272	End	11676
GI	none	Score	70
Exons	11272..11316, 11305..11502, 11347..11484, 11521..11676		

Seq. No.	21078	Seq. ID	OJ990917_15.0112.C9
Gene No.	44021	Strand	-
Start	1000	End	12211
Name	OJ990917_15.0112.C9.o5.tw	Method	TBLASTX:Wheat
Start	11563	End	11836
GI	none	Score	56
Exons	11563..11835, 11630..11746, 11807..11836		

Seq. No.	21078	Seq. ID	OJ990917_15.0112.C9
Gene No.	44021	Strand	-
Start	1000	End	12211
Name	OJ990917_15.0112.C9.o3.tm	Method	TBLASTX:Maize
Start	11677	End	12189
GI	none	Score	79
Exons	11677..11961, 11717..11902, 11945..12154, 11962..12189, 12001..12177		

Seq. No.	21078	Seq. ID	OJ990917_15.0112.C9
Gene No.	44021	Strand	-
Start	1000	End	12211
Name	OJ990917_15.0112.C9.o4.ts	Method	TBLASTX:Soybean
Start	11693	End	11934
GI	none	Score	40
Exons	11693..11755, 11695..11934, 11786..11902		

Seq. No.	21078	Seq. ID	OJ990917_15.0112.C9
Gene No.	44021	Strand	-
Start	1000	End	12211
Name	OJ990917_15.0112.C9.o3.tw	Method	TBLASTX:Wheat
Start	11845	End	12204
GI	none	Score	85
Exons	11845..11973, 11965..12204, 12007..12195		

Seq. No.	21078	Seq. ID	OJ990917_15.0112.C9
Gene No.	44021	Strand	-
Start	1000	End	12211
Name	OJ990917_15.0112.C9.o5.ts	Method	TBLASTX:Soybean
Start	11965	End	12210
GI	none	Score	77
Exons	11965..12210, 11969..12199		

Seq. No.	21079	Seq. ID	OJ990917_15.0112.C11
Gene No.	44022	Strand	+
Start	4144	End	5241
Name	OJ990917_15.0112.C11.o2.gs	Method	GENSCAN
Start	4144	End	5241
GI	none	Score	.47
Exons	4144..4357, 5066..5241		

Seq. No.	21080	Seq. ID	OJ990917_15.0112.C13
Gene No.	44023	Strand	+
Start	917	End	1228
Name	OJ990917_15.0112.C13.o1.gs	Method	GENSCAN
Start	917	End	1228
GI	none	Score	.73
Exons	917..971, 1079..1228		

Seq. No.	21081	Seq. ID	OJ990917_15.0112.C14
Gene No.	44024	Strand	+
Start	534	End	1067
Name	OJ990917_15.0112.C14.o1.gs	Method	GENSCAN
Start	534	End	1067
GI	none	Score	.75
Exons	534..1067		

Seq. No.	21081	Seq. ID	OJ990917_15.0112.C14
Gene No.	44025	Strand	-
Start	1637	End	7250
Name	OJ990917_15.0112.C14.o2.gs	Method	GENSCAN
Start	1637	End	7250
GI	none	Score	.75
Exons	1637..1668, 1996..2319, 2334..2772, 3660..3747, 4035..6385, 6574..6682, 6704..6892, 6897..7099, 7236..7250		

Seq. No.	21081	Seq. ID	OJ990917_15.0112.C14
Gene No.	44025	Strand	-
Start	1637	End	7250
Name	OJ990917_15.0112.C14.o6.tm	Method	TBLASTX:Maize
Start	1973	End	2479
GI	none	Score	66
Exons	1973..2044, 1974..2054, 2179..2235, 2187..2234, 2258..2314, 2282..2341, 2335..2478, 2335..2478, 2339..2479		

Seq. No.	21081	Seq. ID	OJ990917_15.0112.C14
Gene No.	44025	Strand	-
Start	1637	End	7250
Name	OJ990917_15.0112.C14.o4.tm	Method	TBLASTX:Maize
Start	2524	End	2778
GI	none	Score	199
Exons	2524..2778, 2526..2774, 2527..2778		

Seq. No.	21081	Seq. ID	OJ990917_15.0112.C14
Gene No.	44025	Strand	-
Start	1637	End	7250
Name	OJ990917_15.0112.C14.o5.tm	Method	TBLASTX:Maize
Start	3654	End	4018
GI	none	Score	154
Exons	3654..3752, 3830..4018, 3846..4016		

Seq. No.	21081	Seq. ID	OJ990917_15.0112.C14
Gene No.	44025	Strand	-
Start	1637	End	7250
Name	OJ990917_15.0112.C14.o1.np	Method	AAT/NAP
Start	4007	End	6394
GI	5911167	Score	1534
Exons	4007..6004, 6050..6394		
GI Descrip.	(AF136221) putative transposase protein [Zea mays]		

Seq. No.	21081	Seq. ID	OJ990917_15.0112.C14
Gene No.	44025	Strand	-
Start	1637	End	7250
Name	OJ990917_15.0112.C14.o1.tw	Method	TBLASTX:Wheat
Start	4049	End	4444
GI	none	Score	130
Exons	4049..4444, 4053..4442		

Seq. No.	21081	Seq. ID	OJ990917_15.0112.C14
Gene No.	44025	Strand	-
Start	1637	End	7250
Name	OJ990917_15.0112.C14.o3.tm	Method	TBLASTX:Maize
Start	4097	End	4591
GI	none	Score	235

Exons 4097..4519, 4097..4591, 4098..4589

Seq. No.	21081	Seq. ID	OJ990917_15.0112.C14
Gene No.	44025	Strand	-
Start	1637	End	7250
Name	OJ990917_15.0112.C14.o1.ts	Method	TBLASTX:Soybean
Start	4145	End	4550
GI	none	Score	122
Exons	4145..4387, 4146..4304, 4148..4354, 4400..4549, 4412..4534, 4425..4550		

Seq. No.	21081	Seq. ID	OJ990917_15.0112.C14
Gene No.	44025	Strand	-
Start	1637	End	7250
Name	OJ990917_15.0112.C14.o1.tm	Method	TBLASTX:Maize
Start	4622	End	5080
GI	none	Score	428
Exons	4622..5080, 4625..5077		

Seq. No.	21081	Seq. ID	OJ990917_15.0112.C14
Gene No.	44025	Strand	-
Start	1637	End	7250
Name	OJ990917_15.0112.C14.o2.tw	Method	TBLASTX:Wheat
Start	5195	End	5497
GI	none	Score	131
Exons	5195..5497, 5195..5497		

Seq. No.	21081	Seq. ID	OJ990917_15.0112.C14
Gene No.	44025	Strand	-
Start	1637	End	7250
Name	OJ990917_15.0112.C14.o2.tm	Method	TBLASTX:Maize
Start	5237	End	5705
GI	none	Score	307
Exons	5237..5539, 5237..5545, 5238..5546, 5549..5704, 5556..5705		

Seq. No.	21081	Seq. ID	OJ990917_15.0112.C14
Gene No.	44025	Strand	-
Start	1637	End	7250
Name	OJ990917_15.0112.C14.o1.tc	Method	TBLASTX:Cress
Start	5282	End	5632
GI	none	Score	82
Exons	5282..5503, 5304..5438, 5525..5632, 5526..5618		

Seq. No.	21081	Seq. ID	OJ990917_15.0112.C14
Gene No.	44025	Strand	-
Start	1637	End	7250
Name	OJ990917_15.0112.C14.o3.gp	Method	AAT/GAP
Start	6594	End	7052
GI	LIB3432-044-P1-K1-F5	Score	808
Exons	6594..7052		
GI Descrip.	'4959460/gb AF126053.1 AF126053 6.0e-10 Zea mays RACB small GTP binding protein mRNA, complete cds'		

Seq. No.	21082	Seq. ID	OJ990917_15.0112.C15
Gene No.	44026	Strand	-
Start	388	End	608
Name	OJ990917_15.0112.C15.o1.gs	Method	GENSCAN

Start	388	End	608
GI	none	Score	.53
Exons	388..608		

  

Seq. No.	21083	Seq. ID	OJ990917_15.0112.C16
Gene No.	44027	Strand	+
Start	1	End	693
Name	OJ990917_15.0112.C16.o1.gp	Method	AAT/GAP
Start	1	End	693
GI	553_1.R1084	Score	946
Exons	1..179, 266..448, 545..693		
GI Descrip.	'218179/dbj BAA01058  0.0e+00 (D10207) H-ATPase [Oryza sativa] >gi_444339_prf__1906387A H ATPase [Oryza sativa]'		

Seq. No.	21083	Seq. ID	OJ990917_15.0112.C16
Gene No.	44027	Strand	+
Start	1	End	693
Name	OJ990917_15.0112.C16.o1.np	Method	AAT/NAP
Start	1	End	693
GI	218179	Score	796
Exons	1..179, 266..448, 545..693		
GI Descrip.	(D10207) H-ATPase [Oryza sativa] gi 444339 prf  1906387A H ATPase [Oryza sativa]		

Seq. No.	21083	Seq. ID	OJ990917_15.0112.C16
Gene No.	44027	Strand	+
Start	1	End	693
Name	OJ990917_15.0112.C16.o1.ts	Method	TBLASTX:Soybean
Start	8	End	691
GI	none	Score	214
Exons	8..172, 9..191, 259..447, 265..459, 266..451, 539..691, 544..639, 545..688		

Seq. No.	21083	Seq. ID	OJ990917_15.0112.C16
Gene No.	44027	Strand	+
Start	1	End	693
Name	OJ990917_15.0112.C16.o1.tm	Method	TBLASTX:Maize
Start	10	End	693
GI	none	Score	181
Exons	10..177, 11..178, 12..191, 53..178, 261..431, 262..447, 265..459, 266..451, 539..691, 543..689, 544..693		

Seq. No.	21083	Seq. ID	OJ990917_15.0112.C16
Gene No.	44027	Strand	+
Start	1	End	693
Name	OJ990917_15.0112.C16.o1.tc	Method	TBLASTX:Cress
Start	60	End	607
GI	none	Score	135
Exons	60..191, 62..190, 248..445, 253..438, 254..451, 268..459, 539..607, 545..607		

Seq. No.	21083	Seq. ID	OJ990917_15.0112.C16
Gene No.	44027	Strand	+
Start	1	End	693
Name	OJ990917_15.0112.C16.o1.gs	Method	GENSCAN
Start	266	End	671
GI	none	Score	.94

Exons 266..448, 545..671

Seq. No.	21083	Seq. ID	OJ990917_15.0112.C16
Gene No.	44027	Strand	+
Start	1	End	693
Name	OJ990917_15.0112.C16.o1.tw	Method	TBLASTX:Wheat
Start	266	End	649
GI	none	Score	254
Exons	266..448, 268..429, 272..445, 544..639, 548..640, 563..649		

Seq. No.	21084	Seq. ID	OJ990917_15.0112.C17
Gene No.	44028	Strand	+
Start	1	End	1040
Name	OJ990917_15.0112.C17.o1.gp	Method	AAT/GAP
Start	1	End	531
GI	702460	Score	393
Exons	1..103, 219..317, 425..531		
GI Descrip.	2213597 2.0e-16 (AC000348) T7N9.17 [Arabidopsis thaliana]		

Seq. No.	21084	Seq. ID	OJ990917_15.0112.C17
Gene No.	44028	Strand	+
Start	1	End	1040
Name	OJ990917_15.0112.C17.o1.np	Method	AAT/NAP
Start	1	End	1040
GI	2213597	Score	350
Exons	1..103, 219..317, 425..526, 883..1040		
GI Descrip.	(AC000348) T7N9.17 [Arabidopsis thaliana]		

Seq. No.	21084	Seq. ID	OJ990917_15.0112.C17
Gene No.	44028	Strand	+
Start	1	End	1040
Name	OJ990917_15.0112.C17.o1.gs	Method	GENSCAN
Start	219	End	1026
GI	none	Score	.83
Exons	219..317, 425..526, 883..1026		

Seq. No.	21084	Seq. ID	OJ990917_15.0112.C17
Gene No.	44029	Strand	-
Start	898	End	1040
Name	OJ990917_15.0112.C17.o1.tm	Method	TBLASTX:Maize
Start	258	End	1032
GI	none	Score	87
Exons	258..320, 267..332, 419..529, 422..526, 436..528, 874..1032, 877..1032		

Seq. No.	21084	Seq. ID	OJ990917_15.0112.C17
Gene No.	44029	Strand	-
Start	898	End	1040
Name	OJ990917_15.0112.C17.o1.ts	Method	TBLASTX:Soybean
Start	385	End	1032
GI	none	Score	136
Exons	385..498, 422..529, 422..526, 850..1023, 871..1032, 906..1031		

Seq. No.	21084	Seq. ID	OJ990917_15.0112.C17
Gene No.	44029	Strand	-
Start	898	End	1040
Name	OJ990917_15.0112.C17.o2.gp	Method	AAT/GAP

Start	898	End	1040
GI	20973 1.R1084	Score	236
Exons	898..1040		
GI Descrip.	'2213597 2.0e-16 (AC000348) T7N9.17 [Arabidopsis thaliana]'		

Seq. No.	21085	Seq. ID	OJ990917_15.0112.C18
Gene No.	44030	Strand	+
Start	313	End	420
Name	OJ990917_15.0112.C18.o1.gs	Method	GENSCAN
Start	313	End	420
GI	none	Score	.93
Exons	313..420		

Seq. No.	21086	Seq. ID	OJ990917_15.0112.C19
Gene No.	44031	Strand	+
Start	1	End	650
Name	OJ990917_15.0112.C19.o1.np	Method	AAT/NAP
Start	1	End	650
GI	6498441	Score	385
Exons	1..650		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	21086	Seq. ID	OJ990917_15.0112.C19
Gene No.	44031	Strand	+
Start	1	End	650
Name	OJ990917_15.0112.C19.o1.tw	Method	TBLASTX:Wheat
Start	9	End	348
GI	none	Score	143
Exons	9..182, 187..348		

Seq. No.	21086	Seq. ID	OJ990917_15.0112.C19
Gene No.	44031	Strand	+
Start	1	End	650
Name	OJ990917_15.0112.C19.o1.gs	Method	GENSCAN
Start	15	End	597
GI	none	Score	.99
Exons	15..231, 284..597		

Seq. No.	21087	Seq. ID	OJ990917_15.0112.C21
Gene No.	44032	Strand	+
Start	338	End	473
Name	OJ990917_15.0112.C21.o1.gs	Method	GENSCAN
Start	338	End	473
GI	none	Score	.47
Exons	338..473		

Seq. No.	21088	Seq. ID	OJ990917_15.0112.C22
Gene No.	44033	Strand	+
Start	210	End	569
Name	OJ990917_15.0112.C22.o1.gs	Method	GENSCAN
Start	210	End	569
GI	none	Score	.76
Exons	210..325, 439..569		

Seq. No.	21089	Seq. ID	OJ990917_15.0112.C24
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Gene No.	44034	Strand	-
Start	35	End	466
Name	OJ990917_15.0112.C24.o1.gs	Method	GENSCAN
Start	35	End	466
GI	none	Score	.97
Exons	35..83, 88..256, 283..466		
Seq. No.	21090	Seq. ID	OJ990917_15.0112.C25
Gene No.	44035	Strand	-
Start	61	End	718
Name	OJ990917_15.0112.C25.o1.gs	Method	GENSCAN
Start	61	End	718
GI	none	Score	.68
Exons	61..328, 464..561, 585..718		
Seq. No.	21091	Seq. ID	OJ990917_15.0112.C26
Gene No.	44036	Strand	-
Start	473	End	532
Name	OJ990917_15.0112.C26.o1.gs	Method	GENSCAN
Start	473	End	532
GI	none	Score	.44
Exons	473..532		
Seq. No.	21092	Seq. ID	OJ990917_15.0112.C27
Gene No.	44037	Strand	+
Start	1	End	642
Name	OJ990917_15.0112.C27.o1.np	Method	AAT/NAP
Start	1	End	642
GI	5777617	Score	74
Exons	1..65, 557..642		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		
Seq. No.	21093	Seq. ID	OJ990917_15.0112.C29
Gene No.	44038	Strand	-
Start	1	End	659
Name	OJ990917_15.0112.C29.o1.np	Method	AAT/NAP
Start	1	End	655
GI	2792238	Score	288
Exons	1..54, 156..655		
GI Descrip.	(AF032697) NBS-LRR type resistance protein [Oryza sativa]		
Seq. No.	21093	Seq. ID	OJ990917_15.0112.C29
Gene No.	44038	Strand	-
Start	1	End	659
Name	OJ990917_15.0112.C29.o1.gs	Method	GENSCAN
Start	39	End	659
GI	none	Score	.73
Exons	39..659		
Seq. No.	21093	Seq. ID	OJ990917_15.0112.C29
Gene No.	44038	Strand	-
Start	1	End	659
Name	OJ990917_15.0112.C29.o1.tc	Method	TBLASTX:Cress
Start	156	End	626
GI	none	Score	46
Exons	156..209, 225..275, 309..491, 328..444, 534..626, 535..612		

Seq. No.	21093	Seq. ID	OJ990917_15.0112.C29
Gene No.	44038	Strand	-
Start	1	End	659
Name	OJ990917_15.0112.C29.o1.ts	Method	TBLASTX:Soybean
Start	159	End	620
GI	none	Score	67
Exons	159..209, 234..482, 247..495, 495..620, 529..606		

Seq. No.	21093	Seq. ID	OJ990917_15.0112.C29
Gene No.	44038	Strand	-
Start	1	End	659
Name	OJ990917_15.0112.C29.o1.tm	Method	TBLASTX:Maize
Start	237	End	632
GI	none	Score	115
Exons	237..299, 273..632, 313..609		

Seq. No.	21093	Seq. ID	OJ990917_15.0112.C29
Gene No.	44038	Strand	-
Start	1	End	659
Name	OJ990917_15.0112.C29.o1.tw	Method	TBLASTX:Wheat
Start	336	End	623
GI	none	Score	94
Exons	336..467, 486..623		

Seq. No.	21094	Seq. ID	OJ990917_15.0112.C31
Gene No.	44039	Strand	+
Start	251	End	423
Name	OJ990917_15.0112.C31.o1.gs	Method	GENSCAN
Start	251	End	423
GI	none	Score	.94
Exons	251..423		

Seq. No.	21095	Seq. ID	OJ990917_15.0112.C32
Gene No.	44040	Strand	-
Start	1	End	683
Name	OJ990917_15.0112.C32.o1.np	Method	AAT/NAP
Start	1	End	226
GI	2792244	Score	110
Exons	1..226		
GI Descrip.	(AF032700) NBS-LRR type resistance protein [Oryza sativa]		

Seq. No.	21095	Seq. ID	OJ990917_15.0112.C32
Gene No.	44040	Strand	-
Start	1	End	683
Name	OJ990917_15.0112.C32.o1.gs	Method	GENSCAN
Start	23	End	683
GI	none	Score	.84
Exons	23..257, 263..424, 463..683		

Seq. No.	21096	Seq. ID	OJ990907_14.0114.C1
Gene No.	44041	Strand	-
Start	1	End	1002
Name	OJ990907_14.0114.C1.o1.np	Method	AAT/NAP
Start	1	End	1002
GI	5032119	Score	96
Exons	1..88, 331..723, 917..1002		
GI Descrip.	Ser/Arg-related nuclear matrix protein (plenty of prolines)		

101-like) gi|3005587 (AF048977) Ser/Arg-related nuclear matrix protein [Homo sapiens]

Seq. No.	21096	Seq. ID	OJ990907_14.0114.C1
Gene No.	44041	Strand	-
Start	1	End	1002
Name	OJ990907_14.0114.C1.o1.gs	Method	GENSCAN
Start	400	End	783
GI	none	Score	.8
Exons	400..647, 692..783		
Seq. No.	21097	Seq. ID	OJ990907_14.0114.C3
Gene No.	44042	Strand	+
Start	1	End	97
Name	OJ990907_14.0114.C3.o1.gp	Method	AAT/GAP
Start	1	End	97
GI	LIB3477-003-P1-K1-E9	Score	147
Exons	1..97		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		
Seq. No.	21098	Seq. ID	OJ990907_14.0114.C4
Gene No.	44043	Strand	-
Start	87	End	1226
Name	OJ990907_14.0114.C4.o1.gs	Method	GENSCAN
Start	87	End	1226
GI	none	Score	.98
Exons	87..1226		
Seq. No.	21098	Seq. ID	OJ990907_14.0114.C4
Gene No.	44044	Strand	-
Start	2876	End	6318
Name	OJ990907_14.0114.C4.o2.gs	Method	GENSCAN
Start	2876	End	6318
GI	none	Score	.55
Exons	2876..3430, 3489..3740, 3835..4727, 4788..4820, 4909..5407, 5432..5820, 5955..6014, 6210..6318		
Seq. No.	21099	Seq. ID	OJ990907_14.0114.C5
Gene No.	44045	Strand	-
Start	41	End	2216
Name	OJ990907_14.0114.C5.o1.gs	Method	GENSCAN
Start	41	End	2216
GI	none	Score	.52
Exons	41..279, 384..502, 2029..2216		
Seq. No.	21100	Seq. ID	OJ990907_14.0114.C6
Gene No.	44046	Strand	-
Start	476	End	582
Name	OJ990907_14.0114.C6.o1.gs	Method	GENSCAN
Start	476	End	582
GI	none	Score	.45
Exons	476..582		
Seq. No.	21101	Seq. ID	OJ990907_14.0114.C7
Gene No.	44047	Strand	+

Start	186	End	2384
Name	OJ990907_14.0114.C7.o1.gs	Method	GENSCAN
Start	186	End	2384
GI	none	Score	.5
Exons	186..250, 444..517, 1847..2119, 2267..2384		

Seq. No.	21102	Seq. ID	OJ990907_14.0114.C8
Gene No.	44048	Strand	-
Start	704	End	1428
Name	OJ990907_14.0114.C8.o1.gs	Method	GENSCAN
Start	704	End	1428
GI	none	Score	.4
Exons	704..725, 1289..1428		

Seq. No.	21103	Seq. ID	OJ990907_14.0114.C10
Gene No.	44049	Strand	+
Start	5	End	438
Name	OJ990907_14.0114.C10.o1.np	Method	AAT/NAP
Start	5	End	438
GI	4680185	Score	454
Exons	5..438		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	21103	Seq. ID	OJ990907_14.0114.C10
Gene No.	44049	Strand	+
Start	5	End	438
Name	OJ990907_14.0114.C10.o1.gs	Method	GENSCAN
Start	46	End	398
GI	none	Score	.96
Exons	46..96, 141..398		

Seq. No.	21104	Seq. ID	OJ990907_14.0114.C11
Gene No.	44050	Strand	-
Start	1	End	694
Name	OJ990907_14.0114.C11.o1.np	Method	AAT/NAP
Start	1	End	694
GI	6907087	Score	435
Exons	1..694		
GI Descrip.	(AP001129) ESTs C72771(E2215), AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	21105	Seq. ID	OJ990907_14.0114.C12
Gene No.	44051	Strand	+
Start	171	End	400
Name	OJ990907_14.0114.C12.o1.gs	Method	GENSCAN
Start	171	End	400
GI	none	Score	.56
Exons	171..400		

Seq. No.	21106	Seq. ID	OJ990907_14.0114.C13
Gene No.	44052	Strand	+
Start	659	End	749
Name	OJ990907_14.0114.C13.o1.gs	Method	GENSCAN
Start	659	End	749
GI	none	Score	.63
Exons	659..749		

Seq. No.	21106	Seq. ID	OJ990907_14.0114.C13
Gene No.	44053	Strand	+
Start	8263	End	13460
Name	OJ990907_14.0114.C13.o3.gs	Method	GENSCAN
Start	8263	End	10283
GI	none	Score	.51
Exons	8263..8634, 8728..8942, 9142..9240, 9371..9531, 9703..10283		

Seq. No.	21106	Seq. ID	OJ990907_14.0114.C13
Gene No.	44053	Strand	+
Start	8263	End	13460
Name	OJ990907_14.0114.C13.o3.np	Method	AAT/NAP
Start	8263	End	13460
GI	5922631	Score	4826
Exons	8263..8382, 8620..8893, 9161..9320, 9366..10367, 10973..13460		
GI Descrip.	(AP000492) ESTs C26347(C12145), AU078074(C12145) correspond to a region of the predicted gene.; similar to prpol; Zea mays retrotransposon Cinfu-1. (AF049110) [Oryza sativa] gi 6016864 dbj BAA85207.1  (AP000570) ESTs C26347(C12145), AU078074(C12145) correspond to a region of the predicted gene.; Similar to prpol; Zea mays retrotransposon Cinfu-1. (AF049110) [Oryza sativ		

Seq. No.	21106	Seq. ID	OJ990907_14.0114.C13
Gene No.	44053	Strand	+
Start	8263	End	13460
Name	OJ990907_14.0114.C13.o4.gs	Method	GENSCAN
Start	10439	End	12265
GI	none	Score	.41
Exons	10439..10658, 10700..10974, 11081..11259, 11560..12265		

Seq. No.	21106	Seq. ID	OJ990907_14.0114.C13
Gene No.	44054	Strand	-
Start	2640	End	8318
Name	OJ990907_14.0114.C13.o2.gs	Method	GENSCAN
Start	2640	End	6769
GI	none	Score	.75
Exons	2640..2707, 3086..3293, 4889..5088, 5143..5429, 5506..5798, 5885..6086, 6135..6769		

Seq. No.	21106	Seq. ID	OJ990907_14.0114.C13
Gene No.	44054	Strand	-
Start	2640	End	8318
Name	OJ990907_14.0114.C13.o2.np	Method	AAT/NAP
Start	3019	End	6769
GI	6691716	Score	1738
Exons	3019..3061, 4705..4814, 4889..5083, 5143..5429, 5506..5683, 5881..6769		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6691717 dbj BAA89397.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	21106	Seq. ID	OJ990907_14.0114.C13
Gene No.	44054	Strand	-
Start	2640	End	8318
Name	OJ990907_14.0114.C13.o1.np	Method	AAT/NAP

Start	3085	End	8318
GI	5257279	Score	219
Exons	3085..3312, 8234..8318		
GI Descrip.	(AP000364) Similar to Transposon MAGGY gag and pol gene homologues. (L35053) [Oryza sativa]		

Seq. No.	21106	Seq. ID	OJ990907_14.0114.C13
Gene No.	44054	Strand	-
Start	2640	End	8318
Name	OJ990907_14.0114.C13.o1.gp	Method	AAT/GAP
Start	7804	End	8216
GI	5816562	Score	672
Exons	7804..8216		
GI Descrip.	6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10		

Seq. No.	21106	Seq. ID	OJ990907_14.0114.C13
Gene No.	44055	Strand	-
Start	13204	End	14462
Name	OJ990907_14.0114.C13.o8.tw	Method	TBLASTX:Wheat
Start	6359	End	6649
GI	none	Score	200
Exons	6359..6649		

Seq. No.	21106	Seq. ID	OJ990907_14.0114.C13
Gene No.	44055	Strand	-
Start	13204	End	14462
Name	OJ990907_14.0114.C13.o6.tw	Method	TBLASTX:Wheat
Start	9741	End	10142
GI	none	Score	337
Exons	9741..10142, 9884..10126		

Seq. No.	21106	Seq. ID	OJ990907_14.0114.C13
Gene No.	44055	Strand	-
Start	13204	End	14462
Name	OJ990907_14.0114.C13.o7.tm	Method	TBLASTX:Maize
Start	10016	End	10194
GI	none	Score	187
Exons	10016..10162, 10017..10193, 10017..10193, 10069..10194		

Seq. No.	21106	Seq. ID	OJ990907_14.0114.C13
Gene No.	44055	Strand	-
Start	13204	End	14462
Name	OJ990907_14.0114.C13.o1.tw	Method	TBLASTX:Wheat
Start	10384	End	10839
GI	none	Score	221
Exons	10384..10626, 10385..10648, 10627..10839, 10644..10838		

Seq. No.	21106	Seq. ID	OJ990907_14.0114.C13
Gene No.	44055	Strand	-
Start	13204	End	14462
Name	OJ990907_14.0114.C13.o3.tm	Method	TBLASTX:Maize
Start	10555	End	10869
GI	none	Score	285
Exons	10555..10650, 10627..10869, 10629..10859		

Seq. No.	21106	Seq. ID	OJ990907_14.0114.C13
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Gene No.	44055	Strand	-
Start	13204	End	14462
Name	OJ990907_14.0114.C13.o7.tw	Method	TBLASTX:Wheat
Start	10840	End	11119
GI	none	Score	191
Exons	10840..11022, 10843..11010, 11018..11119, 11020..11118		

Seq. No.	21106	Seq. ID	OJ990907_14.0114.C13
Gene No.	44055	Strand	-
Start	13204	End	14462
Name	OJ990907_14.0114.C13.o1.ts	Method	TBLASTX:Soybean
Start	11017	End	11395
GI	none	Score	283
Exons	11017..11154, 11018..11395, 11027..11308		

Seq. No.	21106	Seq. ID	OJ990907_14.0114.C13
Gene No.	44055	Strand	-
Start	13204	End	14462
Name	OJ990907_14.0114.C13.o2.tm	Method	TBLASTX:Maize
Start	11062	End	11506
GI	none	Score	267
Exons	11062..11316, 11063..11317, 11063..11320, 11338..11469, 11339..11488, 11480..11506		

Seq. No.	21106	Seq. ID	OJ990907_14.0114.C13
Gene No.	44055	Strand	-
Start	13204	End	14462
Name	OJ990907_14.0114.C13.o2.tw	Method	TBLASTX:Wheat
Start	11158	End	11593
GI	none	Score	90
Exons	11158..11574, 11164..11592, 11165..11593		

Seq. No.	21106	Seq. ID	OJ990907_14.0114.C13
Gene No.	44055	Strand	-
Start	13204	End	14462
Name	OJ990907_14.0114.C13.o2.ts	Method	TBLASTX:Soybean
Start	11591	End	12009
GI	none	Score	88
Exons	11591..11725, 11629..11715, 11761..12009, 11765..12007		

Seq. No.	21106	Seq. ID	OJ990907_14.0114.C13
Gene No.	44055	Strand	-
Start	13204	End	14462
Name	OJ990907_14.0114.C13.o3.tw	Method	TBLASTX:Wheat
Start	11630	End	12052
GI	none	Score	406
Exons	11630..12052, 11635..11976		

Seq. No.	21106	Seq. ID	OJ990907_14.0114.C13
Gene No.	44055	Strand	-
Start	13204	End	14462
Name	OJ990907_14.0114.C13.o5.tm	Method	TBLASTX:Maize
Start	11684	End	11956
GI	none	Score	128
Exons	11684..11854, 11858..11956		

Seq. No.	21106	Seq. ID	OJ990907_14.0114.C13
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Gene No.	44055	Strand	-
Start	13204	End	14462
Name	OJ990907_14.0114.C13.o9.tw	Method	TBLASTX:Wheat
Start	12068	End	12367
GI	none	Score	135
Exons	12068..12202, 12269..12367		
Seq. No.	21106	Seq. ID	OJ990907_14.0114.C13
Gene No.	44055	Strand	-
Start	13204	End	14462
Name	OJ990907_14.0114.C13.o1.tm	Method	TBLASTX:Maize
Start	12364	End	12726
GI	none	Score	115
Exons	12364..12456, 12365..12457, 12462..12671, 12463..12672, 12679..12726		
Seq. No.	21106	Seq. ID	OJ990907_14.0114.C13
Gene No.	44055	Strand	-
Start	13204	End	14462
Name	OJ990907_14.0114.C13.o5.tw	Method	TBLASTX:Wheat
Start	12371	End	12758
GI	none	Score	107
Exons	12371..12457, 12460..12756, 12465..12680, 12565..12756, 12711..12758		
Seq. No.	21106	Seq. ID	OJ990907_14.0114.C13
Gene No.	44055	Strand	-
Start	13204	End	14462
Name	OJ990907_14.0114.C13.o6.tm	Method	TBLASTX:Maize
Start	12837	End	13100
GI	none	Score	88
Exons	12837..12926, 12839..12925, 12917..12991, 12921..13004, 13014..13100		
Seq. No.	21106	Seq. ID	OJ990907_14.0114.C13
Gene No.	44055	Strand	-
Start	13204	End	14462
Name	OJ990907_14.0114.C13.o4.tw	Method	TBLASTX:Wheat
Start	12870	End	13481
GI	none	Score	260
Exons	12870..13130, 12890..12979, 13031..13132, 13182..13361, 13353..13481		
Seq. No.	21106	Seq. ID	OJ990907_14.0114.C13
Gene No.	44055	Strand	-
Start	13204	End	14462
Name	OJ990907_14.0114.C13.o4.tm	Method	TBLASTX:Maize
Start	13182	End	13445
GI	none	Score	168
Exons	13182..13364, 13238..13363, 13343..13444, 13344..13445		
Seq. No.	21106	Seq. ID	OJ990907_14.0114.C13
Gene No.	44055	Strand	-
Start	13204	End	14462
Name	OJ990907_14.0114.C13.o5.gs	Method	GENSCAN
Start	13204	End	14275
GI	none	Score	.7



Exons 13204..13325, 14060..14275

Seq. No.	21106	Seq. ID	OJ990907_14.0114.C13
Gene No.	44055	Strand	-
Start	13204	End	14462
Name	OJ990907_14.0114.C13.o4.np	Method	AAT/NAP
Start	13837	End	14462
GI	6691716	Score	560
Exons	13837..14275, 14349..14462		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6691717 dbj BAA89397.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	21107	Seq. ID	OJ990907_14.0114.C14
Gene No.	44056	Strand	+
Start	1	End	8685
Name	OJ990907_14.0114.C14.o1.np	Method	AAT/NAP
Start	1	End	8685
GI	6630685	Score	2090
Exons	1..1083, 1119..1335, 7284..8685		
GI Descrip.	(AP000969) Similar to copia-type pol polyprotein. (AF105716) [Oryza sativa]		

Seq. No.	21107	Seq. ID	OJ990907_14.0114.C14
Gene No.	44056	Strand	+
Start	1	End	8685
Name	OJ990907_14.0114.C14.o1.gs	Method	GENSCAN
Start	353	End	2878
GI	none	Score	.64
Exons	353..358, 849..959, 1045..1146, 1685..1715, 2025..2212, 2217..2317, 2391..2452, 2817..2878		

Seq. No.	21107	Seq. ID	OJ990907_14.0114.C14
Gene No.	44056	Strand	+
Start	1	End	8685
Name	OJ990907_14.0114.C14.o1.gp	Method	AAT/GAP
Start	3046	End	3478
GI	2428185	Score	672
Exons	3046..3478		
GI Descrip.	5852170/emb AL117265.1 OST17804 1.0e-177 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	21107	Seq. ID	OJ990907_14.0114.C14
Gene No.	44056	Strand	+
Start	1	End	8685
Name	OJ990907_14.0114.C14.o2.gp	Method	AAT/GAP
Start	4024	End	4196
GI	LIB3433-026-P1-K1-C1	Score	254
Exons	4024..4196		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-44 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	21107	Seq. ID	OJ990907_14.0114.C14
Gene No.	44057	Strand	+
Start	10620	End	12173
Name	OJ990907_14.0114.C14.o2.np	Method	AAT/NAP
Start	10620	End	12173

GI 6539588 Score 124  
 Exons 10620..10884, 12127..12173  
 GI Descrip. (AP000837) hypothetical protein [Oryza sativa]

Seq. No. 21107 Seq. ID OJ990907\_14.0114.C14  
 Gene No. 44058 Strand +  
 Start 18392 End 20145  
 Name OJ990907\_14.0114.C14.o5.np Method AAT/NAP  
 Start 18392 End 20145  
 GI 6907087 Score 841  
 Exons 18392..18888, 18927..19502, 20044..20145  
 GI Descrip. (AP001129) ESTs C72771(E2215), AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No. 21107 Seq. ID OJ990907\_14.0114.C14  
 Gene No. 44059 Strand +  
 Start 20610 End 20991  
 Name OJ990907\_14.0114.C14.o5.gp Method AAT/GAP  
 Start 20610 End 20991  
 GI uC-osflcyp033a04b1 Score 623  
 Exons 20610..20991  
 GI Descrip. '6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'

Seq. No. 21107 Seq. ID OJ990907\_14.0114.C14  
 Gene No. 44060 Strand -  
 Start 4222 End 4496  
 Name OJ990907\_14.0114.C14.o3.gp Method AAT/GAP  
 Start 4222 End 4496  
 GI 61605\_1.R1084 Score 468  
 Exons 4222..4496  
 GI Descrip. '5852170/emb|AL117265.1|OST17804 1.0e-137 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'

Seq. No. 21107 Seq. ID OJ990907\_14.0114.C14  
 Gene No. 44061 Strand -  
 Start 5414 End 6150  
 Name OJ990907\_14.0114.C14.o4.gp Method AAT/GAP  
 Start 5414 End 6150  
 GI 101153\_1.R1084 Score 667  
 Exons 5414..5643, 5961..6150  
 GI Descrip. '5852170/emb|AL117265.1|OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'

Seq. No. 21107 Seq. ID OJ990907\_14.0114.C14  
 Gene No. 44062 Strand -  
 Start 11988 End 17297  
 Name OJ990907\_14.0114.C14.o3.np Method AAT/NAP  
 Start 11908 End 14674  
 GI 4206306 Score 1182  
 Exons 11908..11948, 12677..14044, 14248..14674  
 GI Descrip. (AF049110) prpol [Zea mays]

Seq. No. 21107 Seq. ID OJ990907\_14.0114.C14  
 Gene No. 44062 Strand -  
 Start 11988 End 17297

Name	OJ990907_14.0114.C14.o4.gs	Method	GENSCAN
Start	11988	End	17036
GI	none	Score	.63
Exons	11988..12797, 12858..13244, 13661..13821, 13826..14088, 14145..14935, 14960..15555, 15664..15874, 16009..16239, 16775..16883, 16918..17036		

Seq. No.	21107	Seq. ID	OJ990907_14.0114.C14
Gene No.	44062	Strand	-
Start	11988	End	17297
Name	OJ990907_14.0114.C14.o4.np	Method	AAT/NAP
Start	15061	End	17297
GI	6721562	Score	267
Exons	15061..15866, 16897..17297		
GI Descrip.	(AP001073) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa] gi 6815087 dbj BAA90373.1  (AP001081) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa]		

Seq. No.	21107	Seq. ID	OJ990907_14.0114.C14
Gene No.	44063	Strand	-
Start	20538	End	20743
Name	OJ990907_14.0114.C14.o6.np	Method	AAT/NAP
Start	20538	End	20743
GI	4680186	Score	247
Exons	20538..20743		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	21107	Seq. ID	OJ990907_14.0114.C14
Gene No.	44064	Strand	-
Start	21864	End	21935
Name	OJ990907_14.0114.C14.o5.tw	Method	TBLASTX:Wheat
Start	145	End	677
GI	none	Score	135
Exons	145..444, 450..569, 597..677		

Seq. No.	21107	Seq. ID	OJ990907_14.0114.C14
Gene No.	44064	Strand	-
Start	21864	End	21935
Name	OJ990907_14.0114.C14.o3.tm	Method	TBLASTX:Maize
Start	187	End	674
GI	none	Score	84
Exons	187..252, 192..254, 315..479, 331..465, 334..669, 443..673, 450..674		

Seq. No.	21107	Seq. ID	OJ990907_14.0114.C14
Gene No.	44064	Strand	-
Start	21864	End	21935
Name	OJ990907_14.0114.C14.o4.ts	Method	TBLASTX:Soybean
Start	361	End	785
GI	none	Score	67
Exons	361..444, 443..664, 450..671, 693..785		

Seq. No.	21107	Seq. ID	OJ990907_14.0114.C14
Gene No.	44064	Strand	-
Start	21864	End	21935

Name	OJ990907_14.0114.C14.o1.ts	Method	TBLASTX:Soybean
Start	1119	End	7659
GI	5509260	Score	40
Exons	1119..1169, 1119..1169, 1191..1331, 1208..1330, 7280..7396, 7297..7380, 7376..7654, 7378..7659		

GI Descrip. -

Seq. No.	21107	Seq. ID	OJ990907_14.0114.C14
Gene No.	44064	Strand	-
Start	21864	End	21935
Name	OJ990907_14.0114.C14.o2.tw	Method	TBLASTX:Wheat
Start	1247	End	7645
GI	none	Score	80
Exons	1247..1327, 1248..1349, 1248..1331, 7289..7315, 7316..7381, 7324..7380, 7376..7645, 7378..7635		

Seq. No.	21107	Seq. ID	OJ990907_14.0114.C14
Gene No.	44064	Strand	-
Start	21864	End	21935
Name	OJ990907_14.0114.C14.o2.tm	Method	TBLASTX:Maize
Start	7459	End	7897
GI	none	Score	473
Exons	7459..7695, 7460..7897, 7463..7699, 7732..7884, 7781..7894		

Seq. No.	21107	Seq. ID	OJ990907_14.0114.C14
Gene No.	44064	Strand	-
Start	21864	End	21935
Name	OJ990907_14.0114.C14.o4.tw	Method	TBLASTX:Wheat
Start	7835	End	8266
GI	none	Score	103
Exons	7835..7984, 8009..8266		

Seq. No.	21107	Seq. ID	OJ990907_14.0114.C14
Gene No.	44064	Strand	-
Start	21864	End	21935
Name	OJ990907_14.0114.C14.o1.tm	Method	TBLASTX:Maize
Start	8012	End	8667
GI	none	Score	429
Exons	8012..8395, 8020..8388, 8388..8657, 8395..8667		

Seq. No.	21107	Seq. ID	OJ990907_14.0114.C14
Gene No.	44064	Strand	-
Start	21864	End	21935
Name	OJ990907_14.0114.C14.o2.ts	Method	TBLASTX:Soybean
Start	8030	End	8694
GI	none	Score	267
Exons	8030..8395, 8437..8694		

Seq. No.	21107	Seq. ID	OJ990907_14.0114.C14
Gene No.	44064	Strand	-
Start	21864	End	21935
Name	OJ990907_14.0114.C14.o6.tw	Method	TBLASTX:Wheat
Start	8303	End	8622
GI	none	Score	77
Exons	8303..8389, 8431..8622, 8446..8622		

Seq. No.	21107	Seq. ID	OJ990907_14.0114.C14
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Gene No. 44064  
 Start 21864  
 Name OJ990907\_14.0114.C14.o7.tm  
 Start 12009  
 GI none  
 Exons 12009..12269, 12034..12168

Strand -  
 End 21935  
 Method TBLASTX:Maize  
 End 12269  
 Score 88

Seq. No. 21107  
 Gene No. 44064  
 Start 21864  
 Name OJ990907\_14.0114.C14.o6.tm  
 Start 12276  
 GI none  
 Exons 12276..12518

Seq. ID OJ990907\_14.0114.C14  
 Strand -  
 End 21935  
 Method TBLASTX:Maize  
 End 12518  
 Score 196

Seq. No. 21107  
 Gene No. 44064  
 Start 21864  
 Name OJ990907\_14.0114.C14.o3.ts  
 Start 12699  
 GI none  
 Exons 12699..13040, 12865..12990

Seq. ID OJ990907\_14.0114.C14  
 Strand -  
 End 21935  
 Method TBLASTX:Soybean  
 End 13040  
 Score 89

Seq. No. 21107  
 Gene No. 44064  
 Start 21864  
 Name OJ990907\_14.0114.C14.o4.tm  
 Start 12759  
 GI none  
 Exons 12759..13142, 12772..13119

Seq. ID OJ990907\_14.0114.C14  
 Strand -  
 End 21935  
 Method TBLASTX:Maize  
 End 13142  
 Score 222

Seq. No. 21107  
 Gene No. 44064  
 Start 21864  
 Name OJ990907\_14.0114.C14.o1.tw  
 Start 12882  
 GI none  
 Exons 12882..13289, 12883..13098,

Seq. ID OJ990907\_14.0114.C14  
 Strand -  
 End 21935  
 Method TBLASTX:Wheat  
 End 13299  
 Score 141

Exons 12882..13289, 12883..13098, 13068..13289, 13132..13299

Seq. No. 21107  
 Gene No. 44064  
 Start 21864  
 Name OJ990907\_14.0114.C14.o5.tm  
 Start 13170  
 GI none  
 Exons 13170..13445, 13171..13446, 13445..13540

Seq. ID OJ990907\_14.0114.C14  
 Strand -  
 End 21935  
 Method TBLASTX:Maize  
 End 13540  
 Score 197

Seq. No. 21107  
 Gene No. 44064  
 Start 21864  
 Name OJ990907\_14.0114.C14.o3.tw  
 Start 13300  
 GI none  
 Exons 13300..13446, 13302..13439, 13313..13447, 13448..13669, 13449..13643

Seq. ID OJ990907\_14.0114.C14  
 Strand -  
 End 21935  
 Method TBLASTX:Wheat  
 End 13669  
 Score 130

Seq. No. 21107

Seq. ID OJ990907\_14.0114.C14

Gene No.	44064	Strand	-
Start	21864	End	21935
Name	OJ990907_14.0114.C14.o8.tw	Method	TBLASTX:Wheat
Start	13866	End	14428
GI	none	Score	81
Exons	13866..14087, 13867..14088, 14099..14290, 14300..14428		

Seq. No.	21107	Seq. ID	OJ990907_14.0114.C14
Gene No.	44064	Strand	-
Start	21864	End	21935
Name	OJ990907_14.0114.C14.o7.tw	Method	TBLASTX:Wheat
Start	15218	End	15562
GI	none	Score	56
Exons	15218..15562, 15288..15464		

Seq. No.	21107	Seq. ID	OJ990907_14.0114.C14
Gene No.	44064	Strand	-
Start	21864	End	21935
Name	OJ990907_14.0114.C14.o6.gs	Method	GENSCAN
Start	21864	End	21935
GI	none	Score	.87
Exons	21864..21935		

Seq. No.	21108	Seq. ID	OJ990907_14.0114.C15
Gene No.	44065	Strand	+
Start	645	End	1026
Name	OJ990907_14.0114.C15.o2.gp	Method	AAT/GAP
Start	645	End	1026
GI	uC-osflcyp033a04b1	Score	651
Exons	645..1026		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	21108	Seq. ID	OJ990907_14.0114.C15
Gene No.	44066	Strand	+
Start	934	End	5876
Name	OJ990907_14.0114.C15.o1.gs	Method	GENSCAN
Start	934	End	5876
GI	none	Score	.52
Exons	934..978, 2204..2306, 4852..4949, 5196..5279, 5652..5876		

Seq. No.	21108	Seq. ID	OJ990907_14.0114.C15
Gene No.	44066	Strand	+
Start	934	End	5876
Name	OJ990907_14.0114.C15.o3.gp	Method	AAT/GAP
Start	4804	End	5535
GI	4969338	Score	791
Exons	4804..4949, 5143..5279, 5383..5535		

Seq. No.	21108	Seq. ID	OJ990907_14.0114.C15
Gene No.	44067	Strand	-
Start	578	End	796
Name	OJ990907_14.0114.C15.o1.np	Method	AAT/NAP
Start	578	End	796
GI	4680186	Score	331
Exons	578..796		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	21108	Seq. ID	OJ990907_14.0114.C15
Gene No.	44068	Strand	-
Start	5374	End	6792
Name	OJ990907_14.0114.C15.o2.np	Method	AAT/NAP
Start	5374	End	6792
GI	5852181	Score	146
Exons	5374..5460, 6646..6792		
GI Descrip.	(AL117265) zhb0011.1 [Oryza sativa]		

Seq. No.	21109	Seq. ID	OJ990907_14.0114.C16
Gene No.	44069	Strand	+
Start	1	End	2341
Name	OJ990907_14.0114.C16.o2.np	Method	AAT/NAP
Start	1	End	2341
GI	6623974	Score	77
Exons	1..47, 1598..1901, 2323..2341		
GI Descrip.	(AC007505) Similar to Athila ORF1 [Arabidopsis thaliana]		

Seq. No.	21109	Seq. ID	OJ990907_14.0114.C16
Gene No.	44069	Strand	+
Start	1	End	2341
Name	OJ990907_14.0114.C16.o1.np	Method	AAT/NAP
Start	1086	End	2341
GI	4417306	Score	191
Exons	1086..1644, 2314..2341		
GI Descrip.	(AC006446) putative Athila retroelement ORF1 protein [Arabidopsis thaliana]		

Seq. No.	21109	Seq. ID	OJ990907_14.0114.C16
Gene No.	44070	Strand	-
Start	104	End	690
Name	OJ990907_14.0114.C16.o1.gp	Method	AAT/GAP
Start	104	End	690
GI	4879016	Score	837
Exons	104..522, 544..690		
GI Descrip.	6041757/gb AC011806.1 AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence		

Seq. No.	21109	Seq. ID	OJ990907_14.0114.C16
Gene No.	44071	Strand	
Start	1339	End	1662
Name	OJ990907_14.0114.C16.o1.tw	Method	TBLASTX:Wheat
Start	1339	End	1662
GI	none	Score	99
Exons	1339..1455, 1471..1662		

Seq. No.	21110	Seq. ID	OJ990907_14.0114.C17
Gene No.	44072	Strand	+
Start	1398	End	1873
Name	OJ990907_14.0114.C17.o1.gs	Method	GENSCAN
Start	1398	End	1873
GI	none	Score	.9
Exons	1398..1480, 1675..1873		

Seq. No.	21111	Seq. ID	OJ990907_14.0114.C18
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Gene No.	44073	Strand	+
Start	105	End	1031
Name	OJ990907_14.0114.C18.o1.gs	Method	GENSCAN
Start	105	End	1031
GI	none	Score	.76
Exons	105..158, 255..1031		
Seq. No.	21111	Seq. ID	OJ990907_14.0114.C18
Gene No.	44074	Strand	+
Start	3261	End	4744
Name	OJ990907_14.0114.C18.o1.np	Method	AAT/NAP
Start	3084	End	4744
GI	6907086	Score	1226
Exons	3084..3850, 3911..4149, 4382..4744		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		
Seq. No.	21111	Seq. ID	OJ990907_14.0114.C18
Gene No.	44074	Strand	+
Start	3261	End	4744
Name	OJ990907_14.0114.C18.o3.gs	Method	GENSCAN
Start	3261	End	3825
GI	none	Score	.94
Exons	3261..3320, 3385..3825		
Seq. No.	21111	Seq. ID	OJ990907_14.0114.C18
Gene No.	44075	Strand	-
Start	1494	End	2069
Name	OJ990907_14.0114.C18.o2.gs	Method	GENSCAN
Start	1494	End	2069
GI	none	Score	.57
Exons	1494..1547, 1815..1861, 1927..1974, 2015..2069		
Seq. No.	21111	Seq. ID	OJ990907_14.0114.C18
Gene No.	44076	Strand	-
Start	4376	End	5495
Name	OJ990907_14.0114.C18.o4.gs	Method	GENSCAN
Start	4376	End	5495
GI	none	Score	.51
Exons	4376..4606, 5116..5311, 5383..5495		
Seq. No.	21112	Seq. ID	OJ990907_14.0114.C19
Gene No.	44077	Strand	+
Start	9	End	385
Name	OJ990907_14.0114.C19.o1.gs	Method	GENSCAN
Start	9	End	385
GI	none	Score	.67
Exons	9..91, 286..385		
Seq. No.	21113	Seq. ID	OJ990907_14.0114.C20
Gene No.	44078	Strand	+
Start	81	End	159
Name	OJ990907_14.0114.C20.o1.gs	Method	GENSCAN
Start	81	End	159
GI	none	Score	.83
Exons	81..159		
Seq. No.	21113	Seq. ID	OJ990907_14.0114.C20



Gene No.	44079	Strand	+
Start	4521	End	9898
Name	OJ990907_14.0114.C20.o3.gs	Method	GENSCAN
Start	4521	End	9898
GI	none	Score	.76
Exons	4521..4640, 4688..4801, 4933..5856, 5890..6429, 6528..6665, 6745..7218, 7690..7926, 8871..9231, 9792..9898		
Seq. No.	21113	Seq. ID	OJ990907_14.0114.C20
Gene No.	44079	Strand	+
Start	4521	End	9898
Name	OJ990907_14.0114.C20.o1.gp	Method	AAT/GAP
Start	9432	End	9741
GI	72524_1.R1084	Score	399
Exons	9432..9741		
GI Descrip.	'5091496/dbj AB023482.2 AB023482 3.0e-84 Oryza sativa genomic DNA, chromosome 6, clone P0680A03, complete sequence'		
Seq. No.	21113	Seq. ID	OJ990907_14.0114.C20
Gene No.	44080	Strand	+
Start	20596	End	23971
Name	OJ990907_14.0114.C20.o2.np	Method	AAT/NAP
Start	19976	End	23844
GI	3645898	Score	402
Exons	19976..20007, 21243..22240, 23818..23844		
GI Descrip.	(U68408) in-frame stop codon; possibly a post-transposition mutation [Zea mays]		
Seq. No.	21113	Seq. ID	OJ990907_14.0114.C20
Gene No.	44080	Strand	+
Start	20596	End	23971
Name	OJ990907_14.0114.C20.o6.gs	Method	GENSCAN
Start	20596	End	23971
GI	none	Score	.4
Exons	20596..20686, 21159..21345, 21472..21936, 23872..23971		
Seq. No.	21113	Seq. ID	OJ990907_14.0114.C20
Gene No.	44081	Strand	-
Start	1853	End	3916
Name	OJ990907_14.0114.C20.o2.gs	Method	GENSCAN
Start	1853	End	3916
GI	none	Score	.54
Exons	1853..1875, 1989..2066, 3462..3493, 3831..3916		
Seq. No.	21113	Seq. ID	OJ990907_14.0114.C20
Gene No.	44082	Strand	-
Start	8283	End	19327
Name	OJ990907_14.0114.C20.o1.np	Method	AAT/NAP
Start	8283	End	19327
GI	4378066	Score	2458
Exons	8283..9292, 15082..19020, 19101..19327		
GI Descrip.	(AF098806) polyprotein [Sorghum bicolor] gi 4680208 gb AAD27571.1 AF114171_12 (AF114171) polyprotein [Sorghum bicolor]		
Seq. No.	21113	Seq. ID	OJ990907_14.0114.C20
Gene No.	44082	Strand	-

Start 8283  
 Name OJ990907\_14.0114.C20.o5.tm  
 Start 8334  
 GI none  
 Exons 8334..8594, 8359..8532

End 19327  
 Method TBLASTX:Maize  
 End 8594  
 Score 96

Seq. No. 21113  
 Gene No. 44082  
 Start 8283  
 Name OJ990907\_14.0114.C20.o5.tw  
 Start 8772  
 GI none  
 Exons 8772..8966, 8958..9149, 8970..9128

Seq. ID OJ990907\_14.0114.C20  
 Strand -  
 End 19327  
 Method TBLASTX:Wheat  
 End 9149  
 Score 74

Seq. No. 21113  
 Gene No. 44082  
 Start 8283  
 Name OJ990907\_14.0114.C20.o2.ts  
 Start 8859  
 GI none  
 Exons 8859..9083, 9090..9233

Seq. ID OJ990907\_14.0114.C20  
 Strand -  
 End 19327  
 Method TBLASTX:Soybean  
 End 9233  
 Score 93

Seq. No. 21113  
 Gene No. 44082  
 Start 8283  
 Name OJ990907\_14.0114.C20.o1.tm  
 Start 8874  
 GI none  
 Exons 8874..8996, 8875..9237, 8883..9236

Seq. ID OJ990907\_14.0114.C20  
 Strand -  
 End 19327  
 Method TBLASTX:Maize  
 End 9237  
 Score 91

Seq. No. 21113  
 Gene No. 44082  
 Start 8283  
 Name OJ990907\_14.0114.C20.o4.gs  
 Start 11533  
 GI none  
 Exons 11533..11688

Seq. ID OJ990907\_14.0114.C20  
 Strand -  
 End 19327  
 Method GENSCAN  
 End 11688  
 Score .91

Seq. No. 21113  
 Gene No. 44082  
 Start 8283  
 Name OJ990907\_14.0114.C20.o3.gp  
 Start 14779  
 GI 72524\_1.R1084  
 Exons 14779..15082

Seq. ID OJ990907\_14.0114.C20  
 Strand -  
 End 19327  
 Method AAT/GAP  
 End 15082  
 Score 410

GI Descrip. '5091496/dbj|AB023482.2|AB023482 3.0e-84 Oryza sativa genomic DNA, chromosome 6, clone P0680A03, complete sequence'

Seq. No. 21113  
 Gene No. 44082  
 Start 8283  
 Name OJ990907\_14.0114.C20.o3.tw  
 Start 15493  
 GI none  
 Exons 15493..15924, 15500..15925

Seq. ID OJ990907\_14.0114.C20  
 Strand -  
 End 19327  
 Method TBLASTX:Wheat  
 End 15925  
 Score 185

Seq. No. 21113

Seq. ID OJ990907\_14.0114.C20

Gene No.	44082	Strand	-
Start	8283	End	19327
Name	OJ990907_14.0114.C20.o1.ts	Method	TBLASTX:Soybean
Start	16157	End	16529
GI	none	Score	67
Exons	16157..16267, 16192..16410, 16410..16529, 16417..16512		
Seq. No.	21113	Seq. ID	OJ990907_14.0114.C20
Gene No.	44082	Strand	-
Start	8283	End	19327
Name	OJ990907_14.0114.C20.o2.tw	Method	TBLASTX:Wheat
Start	16201	End	16596
GI	none	Score	69
Exons	16201..16410, 16307..16411, 16410..16595, 16417..16596		
Seq. No.	21113	Seq. ID	OJ990907_14.0114.C20
Gene No.	44082	Strand	-
Start	8283	End	19327
Name	OJ990907_14.0114.C20.o3.tm	Method	TBLASTX:Maize
Start	16294	End	16539
GI	none	Score	134
Exons	16294..16410, 16399..16539, 16410..16538		
Seq. No.	21113	Seq. ID	OJ990907_14.0114.C20
Gene No.	44082	Strand	-
Start	8283	End	19327
Name	OJ990907_14.0114.C20.o2.tm	Method	TBLASTX:Maize
Start	16541	End	16876
GI	none	Score	56
Exons	16541..16678, 16592..16684, 16670..16804, 16678..16875, 16679..16876		
Seq. No.	21113	Seq. ID	OJ990907_14.0114.C20
Gene No.	44082	Strand	-
Start	8283	End	19327
Name	OJ990907_14.0114.C20.o1.tw	Method	TBLASTX:Wheat
Start	16598	End	16980
GI	none	Score	102
Exons	16598..16681, 16599..16685, 16676..16954, 16678..16980, 16687..16980		
Seq. No.	21113	Seq. ID	OJ990907_14.0114.C20
Gene No.	44082	Strand	-
Start	8283	End	19327
Name	OJ990907_14.0114.C20.o6.tw	Method	TBLASTX:Wheat
Start	17209	End	17568
GI	none	Score	109
Exons	17209..17430, 17210..17431, 17479..17568		
Seq. No.	21113	Seq. ID	OJ990907_14.0114.C20
Gene No.	44083	Strand	-
Start	21284	End	21838
Name	OJ990907_14.0114.C20.o4.tw	Method	TBLASTX:Wheat
Start	21284	End	21679
GI	none	Score	223
Exons	21284..21382, 21286..21384, 21287..21679		

Seq. No.	21113	Seq. ID	OJ990907_14.0114.C20
Gene No.	44083	Strand	
Start	21284	End	21838
Name	OJ990907_14.0114.C20.o4.tm	Method	TBLASTX:Maize
Start	21485	End	21838
GI	none	Score	199
Exons	21485..21838, 21578..21823		

Seq. No.	21114	Seq. ID	OJ990907_14.0114.C22
Gene No.	44084	Strand	-
Start	354	End	919
Name	OJ990907_14.0114.C22.o1.gs	Method	GENSCAN
Start	354	End	919
GI	none	Score	.54
Exons	354..557, 750..919		

Seq. No.	21115	Seq. ID	OJ990907_14.0114.C23
Gene No.	44085	Strand	+
Start	517	End	1326
Name	OJ990907_14.0114.C23.o1.gs	Method	GENSCAN
Start	517	End	1326
GI	none	Score	.91
Exons	517..1326		

Seq. No.	21115	Seq. ID	OJ990907_14.0114.C23
Gene No.	44086	Strand	+
Start	1574	End	11893
Name	OJ990907_14.0114.C23.o1.np	Method	AAT/NAP
Start	1571	End	6079
GI	4680179	Score	5367
Exons	1571..2644, 2678..6079		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	21115	Seq. ID	OJ990907_14.0114.C23
Gene No.	44086	Strand	+
Start	1574	End	11893
Name	OJ990907_14.0114.C23.o2.gs	Method	GENSCAN
Start	1574	End	7721
GI	none	Score	.58
Exons	1574..2386, 2483..5788, 5849..6065, 6537..7075, 7147..7237, 7636..7721		

Seq. No.	21115	Seq. ID	OJ990907_14.0114.C23
Gene No.	44086	Strand	+
Start	1574	End	11893
Name	OJ990907_14.0114.C23.o3.np	Method	AAT/NAP
Start	6738	End	11893
GI	5852180	Score	362
Exons	6738..6942, 9437..9550, 9603..9926, 10247..10341, 11810..11893		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	21115	Seq. ID	OJ990907_14.0114.C23
Gene No.	44086	Strand	+
Start	1574	End	11893
Name	OJ990907_14.0114.C23.o1.gp	Method	AAT/GAP
Start	8150	End	8533
GI	uC-osflcyp033a04b1	Score	689

Exons 8150..8533  
 GI Descrip. '6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'

Seq. No. 21115 Seq. ID OJ990907\_14.0114.C23  
 Gene No. 44086 Strand +  
 Start 1574 End 11893  
 Name OJ990907\_14.0114.C23.o3.gs Method GENSCAN  
 Start 8330 End 11829  
 GI none Score .65  
 Exons 8330..8405, 8440..8485, 9417..9720, 9765..10057, 11079..11197, 11299..11829

Seq. No. 21115 Seq. ID OJ990907\_14.0114.C23  
 Gene No. 44087 Strand -  
 Start 1690 End 8447  
 Name OJ990907\_14.0114.C23.o2.np Method AAT/NAP  
 Start 1690 End 8447  
 GI 5852180 Score 636  
 Exons 1690..1750, 6818..7230, 7282..7399, 8382..8447  
 GI Descrip. (AL117265) zhb00010.1 [Oryza sativa]

Seq. No. 21115 Seq. ID OJ990907\_14.0114.C23  
 Gene No. 44087 Strand -  
 Start 1690 End 8447  
 Name OJ990907\_14.0114.C23.o9.tw Method TBLASTX:Wheat  
 Start 1781 End 2013  
 GI none Score 204  
 Exons 1781..1801, 1814..2011, 1837..2013

Seq. No. 21115 Seq. ID OJ990907\_14.0114.C23  
 Gene No. 44087 Strand -  
 Start 1690 End 8447  
 Name OJ990907\_14.0114.C23.o7.tw Method TBLASTX:Wheat  
 Start 2047 End 2398  
 GI none Score 293  
 Exons 2047..2241, 2048..2398

Seq. No. 21115 Seq. ID OJ990907\_14.0114.C23  
 Gene No. 44087 Strand -  
 Start 1690 End 8447  
 Name OJ990907\_14.0114.C23.o6.tm Method TBLASTX:Maize  
 Start 2048 End 2353  
 GI none Score 232  
 Exons 2048..2353, 2062..2226

Seq. No. 21115 Seq. ID OJ990907\_14.0114.C23  
 Gene No. 44087 Strand -  
 Start 1690 End 8447  
 Name OJ990907\_14.0114.C23.o7.tm Method TBLASTX:Maize  
 Start 2699 End 3022  
 GI none Score 183  
 Exons 2699..3022

Seq. No. 21115 Seq. ID OJ990907\_14.0114.C23  
 Gene No. 44087 Strand -  
 Start 1690 End 8447

Name	OJ990907_14.0114.C23.o8.tw	Method	TBLASTX:Wheat
Start	2705	End	3127
GI	none	Score	162
Exons	2705..2914, 2761..2913, 2959..3072, 2960..3127		

Seq. No.	21115	Seq. ID	OJ990907_14.0114.C23
Gene No.	44087	Strand	-
Start	1690	End	8447
Name	OJ990907_14.0114.C23.o4.tw	Method	TBLASTX:Wheat
Start	3238	End	3724
GI	none	Score	52
Exons	3238..3531, 3242..3292, 3347..3724, 3356..3658, 3583..3681		

Seq. No.	21115	Seq. ID	OJ990907_14.0114.C23
Gene No.	44087	Strand	-
Start	1690	End	8447
Name	OJ990907_14.0114.C23.o5.tm	Method	TBLASTX:Maize
Start	3253	End	3541
GI	none	Score	279
Exons	3253..3528, 3254..3541		

Seq. No.	21115	Seq. ID	OJ990907_14.0114.C23
Gene No.	44087	Strand	-
Start	1690	End	8447
Name	OJ990907_14.0114.C23.o3.tm	Method	TBLASTX:Maize
Start	3611	End	4111
GI	none	Score	158
Exons	3611..3790, 3619..3738, 3797..4111, 3937..3990, 4018..4068		

Seq. No.	21115	Seq. ID	OJ990907_14.0114.C23
Gene No.	44087	Strand	-
Start	1690	End	8447
Name	OJ990907_14.0114.C23.o1.ts	Method	TBLASTX:Soybean
Start	3665	End	4060
GI	none	Score	57
Exons	3665..3697, 3667..3696, 3701..4060, 3703..3738, 3769..4059		

Seq. No.	21115	Seq. ID	OJ990907_14.0114.C23
Gene No.	44087	Strand	-
Start	1690	End	8447
Name	OJ990907_14.0114.C23.o5.tw	Method	TBLASTX:Wheat
Start	3773	End	4075
GI	none	Score	373
Exons	3773..4075, 3775..4059		

Seq. No.	21115	Seq. ID	OJ990907_14.0114.C23
Gene No.	44087	Strand	-
Start	1690	End	8447
Name	OJ990907_14.0114.C23.o3.tw	Method	TBLASTX:Wheat
Start	4076	End	4498
GI	none	Score	590
Exons	4076..4498, 4108..4497		

Seq. No.	21115	Seq. ID	OJ990907_14.0114.C23
Gene No.	44087	Strand	-
Start	1690	End	8447
Name	OJ990907_14.0114.C23.o3.ts	Method	TBLASTX:Soybean

Start	4082	End	4327
GI	none	Score	207
Exons	4082..4327, 4099..4227		
Seq. No.	21115	Seq. ID	OJ990907_14.0114.C23
Gene No.	44087	Strand	-
Start	1690	End	8447
Name	OJ990907_14.0114.C23.o2.tm	Method	TBLASTX:Maize
Start	4147	End	4501
GI	none	Score	474
Exons	4147..4497, 4148..4501		
Seq. No.	21115	Seq. ID	OJ990907_14.0114.C23
Gene No.	44087	Strand	-
Start	1690	End	8447
Name	OJ990907_14.0114.C23.o2.tw	Method	TBLASTX:Wheat
Start	4501	End	5068
GI	none	Score	656
Exons	4501..5067, 4532..5068		
Seq. No.	21115	Seq. ID	OJ990907_14.0114.C23
Gene No.	44087	Strand	-
Start	1690	End	8447
Name	OJ990907_14.0114.C23.o1.tc	Method	TBLASTX:Cress
Start	4775	End	5092
GI	none	Score	90
Exons	4775..4948, 4949..5092, 4951..5091		
Seq. No.	21115	Seq. ID	OJ990907_14.0114.C23
Gene No.	44087	Strand	-
Start	1690	End	8447
Name	OJ990907_14.0114.C23.o2.ts	Method	TBLASTX:Soybean
Start	4856	End	5117
GI	none	Score	296
Exons	4856..5116, 4861..5115, 4920..5117		
Seq. No.	21115	Seq. ID	OJ990907_14.0114.C23
Gene No.	44087	Strand	-
Start	1690	End	8447
Name	OJ990907_14.0114.C23.o4.tm	Method	TBLASTX:Maize
Start	4915	End	5206
GI	none	Score	374
Exons	4915..5202, 4916..5206		
Seq. No.	21115	Seq. ID	OJ990907_14.0114.C23
Gene No.	44087	Strand	-
Start	1690	End	8447
Name	OJ990907_14.0114.C23.o1.tw	Method	TBLASTX:Wheat
Start	5075	End	5701
GI	none	Score	705
Exons	5075..5701, 5131..5589, 5447..5698		
Seq. No.	21115	Seq. ID	OJ990907_14.0114.C23
Gene No.	44087	Strand	-
Start	1690	End	8447
Name	OJ990907_14.0114.C23.o1.tm	Method	TBLASTX:Maize
Start	5255	End	5839

GI	none	Score	231
Exons	5255..5416, 5263..5409, 5414..5839, 5416..5838		
Seq. No.	21115	Seq. ID	OJ990907_14.0114.C23
Gene No.	44087	Strand	-
Start	1690	End	8447
Name	OJ990907_14.0114.C23.o6.tw	Method	TBLASTX:Wheat
Start	5701	End	6034
GI	none	Score	323
Exons	5701..5970, 5702..6034, 5705..6013		
Seq. No.	21116	Seq. ID	OJ990907_14.0114.C24
Gene No.	44088	Strand	+
Start	1	End	1198
Name	OJ990907_14.0114.C24.o1.np	Method	AAT/NAP
Start	1	End	259
GI	4416302	Score	285
Exons	1..259		
GI Descrip.	(AF105716) copia-type pol polyprotein [Zea mays]		
Seq. No.	21116	Seq. ID	OJ990907_14.0114.C24
Gene No.	44088	Strand	+
Start	1	End	1198
Name	OJ990907_14.0114.C24.o2.np	Method	AAT/NAP
Start	1	End	1198
GI	4680183	Score	132
Exons	1..67, 454..524, 1130..1198		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		
Seq. No.	21116	Seq. ID	OJ990907_14.0114.C24
Gene No.	44089	Strand	-
Start	797	End	1097
Name	OJ990907_14.0114.C24.o1.tm	Method	TBLASTX:Maize
Start	1	End	259
GI	none	Score	328
Exons	1..240, 2..259, 66..242		
Seq. No.	21116	Seq. ID	OJ990907_14.0114.C24
Gene No.	44089	Strand	-
Start	797	End	1097
Name	OJ990907_14.0114.C24.o1.gs	Method	GENSCAN
Start	797	End	1097
GI	none	Score	.82
Exons	797..974, 991..1097		
Seq. No.	21117	Seq. ID	OJ990907_14.0114.C25
Gene No.	44090	Strand	+
Start	182	End	576
Name	OJ990907_14.0114.C25.o1.tm	Method	TBLASTX:Maize
Start	175	End	576
GI	none	Score	393
Exons	175..357, 183..446, 184..453, 185..433, 278..454, 282..452, 423..566, 423..509, 442..570, 463..576		
Seq. No.	21117	Seq. ID	OJ990907_14.0114.C25
Gene No.	44090	Strand	+
Start	182	End	576



Name	OJ990907_14.0114.C25.o1.gs	Method	GENSCAN
Start	182	End	515
GI	none	Score	.4
Exons	182..515		

  

Seq. No.	21117	Seq. ID	OJ990907_14.0114.C25
Gene No.	44090	Strand	+
Start	182	End	576
Name	OJ990907_14.0114.C25.o1.np	Method	AAT/NAP
Start	182	End	573
GI	6630685	Score	527
Exons	182..573		
GI Descrip.	(AP000969) Similar to copia-type pol polyprotein. (AF105716) [Oryza sativa]		

Seq. No.	21117	Seq. ID	OJ990907_14.0114.C25
Gene No.	44090	Strand	+
Start	182	End	576
Name	OJ990907_14.0114.C25.o1.ts	Method	TBLASTX:Soybean
Start	189	End	431
GI	none	Score	119
Exons	189..335, 194..256, 342..431		

Seq. No.	21118	Seq. ID	OJ990907_10.0128.C1
Gene No.	44091	Strand	+
Start	1	End	659
Name	OJ990907_10.0128.C1.o1.np	Method	AAT/NAP
Start	1	End	659
GI	4415931	Score	175
Exons	1..60, 572..659		
GI Descrip.	(AC006418) putative ubiquitin [Arabidopsis thaliana]		

Seq. No.	21119	Seq. ID	OJ990907_10.0128.C2
Gene No.	44092	Strand	+
Start	728	End	2855
Name	OJ990907_10.0128.C2.o1.gp	Method	AAT/GAP
Start	728	End	2855
GI	72829_1.R1084	Score	1022
Exons	728..921, 1900..2138, 2693..2855		
GI Descrip.	'3157951 3.0e-35 (AC002131) Contains similarity to vesicle trafficking protein gb_U91538 from Mus musculus. ESTs gb_F15494 and gb_F14097 come from this gene. [Arabidopsis thaliana]		

Seq. No.	21119	Seq. ID	OJ990907_10.0128.C2
Gene No.	44092	Strand	+
Start	728	End	2855
Name	OJ990907_10.0128.C2.o1.tm	Method	TBLASTX:Maize
Start	1902	End	2148
GI	none	Score	332
Exons	1902..2144, 1903..2145, 1906..2148		

Seq. No.	21119	Seq. ID	OJ990907_10.0128.C2
Gene No.	44092	Strand	+
Start	728	End	2855
Name	OJ990907_10.0128.C2.o1.ts	Method	TBLASTX:Soybean
Start	1926	End	2146
GI	none	Score	286

Exons 1926..2126, 1942..2142, 1943..2134, 1949..2146, 1951..2142

Seq. No.	21119	Seq. ID	OJ990907_10.0128.C2
Gene No.	44092	Strand	+
Start	728	End	2855
Name	OJ990907_10.0128.C2.o1.tc	Method	TBLASTX:Cress
Start	1945	End	2852
GI	none	Score	271
Exons	1945..2142, 1950..2138, 1951..2142, 2689..2769, 2693..2770, 2694..2771, 2781..2801, 2804..2851, 2805..2852		

Seq. No.	21119	Seq. ID	OJ990907_10.0128.C2
Gene No.	44092	Strand	+
Start	728	End	2855
Name	OJ990907_10.0128.C2.o1.gs	Method	GENSCAN
Start	1951	End	2148
GI	none	Score	.71
Exons	1951..2148		

Seq. No.	21119	Seq. ID	OJ990907_10.0128.C2
Gene No.	44092	Strand	+
Start	728	End	2855
Name	OJ990907_10.0128.C2.o1.np	Method	AAT/NAP
Start	1951	End	2855
GI	3157951	Score	477
Exons	1951..2140, 2567..2855		
GI Descrip.	(AC002131) Contains similarity to vesicle trafficking protein gb U91538 from Mus musculus. ESTs gb F15494 and gb F14097 come from this gene. [Arabidopsis thaliana]		

Seq. No.	21119	Seq. ID	OJ990907_10.0128.C2
Gene No.	44092	Strand	+
Start	728	End	2855
Name	OJ990907_10.0128.C2.o2.tm	Method	TBLASTX:Maize
Start	2654	End	2853
GI	none	Score	213
Exons	2654..2845, 2654..2851, 2656..2853, 2664..2852		

Seq. No.	21119	Seq. ID	OJ990907_10.0128.C2
Gene No.	44092	Strand	+
Start	728	End	2855
Name	OJ990907_10.0128.C2.o2.ts	Method	TBLASTX:Soybean
Start	2693	End	2853
GI	none	Score	90
Exons	2693..2851, 2693..2851, 2694..2852, 2716..2853		

Seq. No.	21120	Seq. ID	OJ990907_10.0128.C3
Gene No.	44093	Strand	+
Start	1	End	1440
Name	OJ990907_10.0128.C3.o1.np	Method	AAT/NAP
Start	1	End	1437
GI	3157951	Score	359
Exons	1..133, 637..713, 1357..1437		
GI Descrip.	(AC002131) Contains similarity to vesicle trafficking protein gb U91538 from Mus musculus. ESTs gb F15494 and gb F14097 come from this gene. [Arabidopsis thaliana]		

Seq. No. 21120  
Gene No. 44093  
Start 1  
Name OJ990907\_10.0128.C3.o1.gs  
Start 589  
GI none  
Exons 589..713, 1357..1440

Seq. ID OJ990907\_10.0128.C3  
Strand +  
End 1440  
Method GENSCAN  
End 1440  
Score .52

Seq. No. 21120  
Gene No. 44094  
Start 1357  
Name OJ990907\_10.0128.C3.o1.gp  
Start 1357  
GI 72829\_1.R1084  
Exons 1357..2116

Seq. ID OJ990907\_10.0128.C3  
Strand +  
End 2116  
Method AAT/GAP  
End 2116  
Score 1335

GI Descrip. '3157951 3.0e-35 (AC002131) Contains similarity to vesicle trafficking protein gb\_U91538 from Mus musculus. ESTs gb\_F15494 and gb\_F14097 come from this gene. [Arabidopsis thaliana]'

Seq. No. 21120  
Gene No. 44095  
Start 922  
Name OJ990907\_10.0128.C3.o1.tc  
Start 1  
GI none  
Exons 1..132, 3..92, 7..135

Seq. ID OJ990907\_10.0128.C3  
Strand -  
End 3128  
Method TBLASTX:Cress  
End 135  
Score 209

Seq. No. 21120  
Gene No. 44095  
Start 922  
Name OJ990907\_10.0128.C3.o1.tm  
Start 1  
GI none  
Exons 1..141, 1..141, 2..148, 2..148

Seq. ID OJ990907\_10.0128.C3  
Strand -  
End 3128  
Method TBLASTX:Maize  
End 148  
Score 228

Seq. No. 21120  
Gene No. 44095  
Start 922  
Name OJ990907\_10.0128.C3.o1.ts  
Start 1  
GI none  
Exons 1..129, 1..123, 1354..1437, 1356..1439

Seq. ID OJ990907\_10.0128.C3  
Strand -  
End 3128  
Method TBLASTX:Soybean  
End 1439  
Score 194

Seq. No. 21120  
Gene No. 44095  
Start 922  
Name OJ990907\_10.0128.C3.o2.np  
Start 922  
GI 6633834  
Exons 922..949, 2510..2955  
GI Descrip. (AC009519) F1N19.3 [Arabidopsis thaliana]

Seq. ID OJ990907\_10.0128.C3  
Strand -  
End 3128  
Method AAT/NAP  
End 2955  
Score 238

Seq. No. 21120  
Gene No. 44095  
Start 922  
Name OJ990907\_10.0128.C3.o2.gs  
Start 2340

Seq. ID OJ990907\_10.0128.C3  
Strand -  
End 3128  
Method GENSCAN  
End 3119

GI	none	Score	.64
Exons	2340..3119		
Seq. No.	21120	Seq. ID	OJ990907_10.0128.C3
Gene No.	44095	Strand	-
Start	922	End	3128
Name	OJ990907_10.0128.C3.o3.np	Method	AAT/NAP
Start	2481	End	3128
GI	322759	Score	75
Exons	2481..2834, 2997..3128		
GI Descrip.	pistil extensin-like protein (clone pMG14) - common tobacco (fragment) gi 19927 emb CAA78393  (Z14015) pistil extensin like protein [Nicotiana tabacum]		

Seq. No.	21120	Seq. ID	OJ990907_10.0128.C3
Gene No.	44095	Strand	-
Start	922	End	3128
Name	OJ990907_10.0128.C3.o2.ts	Method	TBLASTX:Soybean
Start	2584	End	2831
GI	none	Score	79
Exons	2584..2766, 2601..2777, 2775..2831		

Seq. No.	21121	Seq. ID	OJ990907_10.0128.C4
Gene No.	44096	Strand	+
Start	139	End	2057
Name	OJ990907_10.0128.C4.o1.gs	Method	GENSCAN
Start	139	End	2057
GI	none	Score	.69
Exons	139..175, 1921..2057		

Seq. No.	21121	Seq. ID	OJ990907_10.0128.C4
Gene No.	44097	Strand	+
Start	8327	End	8778
Name	OJ990907_10.0128.C4.o2.gp	Method	AAT/GAP
Start	8093	End	8150
GI	2312838	Score	69
Exons	8093..8150		
GI Descrip.	1420932/gb U61383 ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence		

Seq. No.	21121	Seq. ID	OJ990907_10.0128.C4
Gene No.	44097	Strand	+
Start	8327	End	8778
Name	OJ990907_10.0128.C4.o4.gs	Method	GENSCAN
Start	8327	End	8778
GI	none	Score	.76
Exons	8327..8369, 8390..8529, 8674..8778		

Seq. No.	21121	Seq. ID	OJ990907_10.0128.C4
Gene No.	44098	Strand	+
Start	9033	End	12305
Name	OJ990907_10.0128.C4.o2.np	Method	AAT/NAP
Start	8994	End	12305
GI	1174740	Score	871
Exons	8994..9578, 11346..11641, 11762..11831, 11926..12305		
GI Descrip.	DNA TOPOISOMERASE II gi 2129576 pir  S53599 DNA topoisomerase II - Arabidopsis thaliana gi 474890 (L21015) topoisomerase II		

[Arabidopsis thaliana]

Seq. No.	21121	Seq. ID	OJ990907_10.0128.C4
Gene No.	44098	Strand	+
Start	9033	End	12305
Name	OJ990907_10.0128.C4.o5.gs	Method	GENSCAN
Start	9033	End	12196
GI	none	Score	.84
Exons	9033..9578, 11346..11641, 11762..11831, 11926..12196		

Seq. No.	21121	Seq. ID	OJ990907_10.0128.C4
Gene No.	44099	Strand	-
Start	3422	End	3879
Name	OJ990907_10.0128.C4.o2.gs	Method	GENSCAN
Start	3422	End	3879
GI	none	Score	.77
Exons	3422..3509, 3563..3879		

Seq. No.	21121	Seq. ID	OJ990907_10.0128.C4
Gene No.	44100	Strand	-
Start	5340	End	7324
Name	OJ990907_10.0128.C4.o3.gs	Method	GENSCAN
Start	5340	End	7291
GI	none	Score	.96
Exons	5340..6148, 6139..7291		

Seq. No.	21121	Seq. ID	OJ990907_10.0128.C4
Gene No.	44100	Strand	-
Start	5340	End	7324
Name	OJ990907_10.0128.C4.o1.np	Method	AAT/NAP
Start	5343	End	7324
GI	6723392	Score	1259
Exons	5343..6052, 6139..6733, 6770..7324		
GI Descrip.	(AL132956) pectinesterase-like protein [Arabidopsis thaliana]		

Seq. No.	21121	Seq. ID	OJ990907_10.0128.C4
Gene No.	44100	Strand	-
Start	5340	End	7324
Name	OJ990907_10.0128.C4.o1.ts	Method	TBLASTX:Soybean
Start	5346	End	5921
GI	none	Score	189
Exons	5346..5663, 5353..5628, 5706..5831, 5722..5832, 5832..5921, 5833..5919		

Seq. No.	21121	Seq. ID	OJ990907_10.0128.C4
Gene No.	44100	Strand	-
Start	5340	End	7324
Name	OJ990907_10.0128.C4.o1.tc	Method	TBLASTX:Cress
Start	5367	End	6730
GI	none	Score	109
Exons	5367..5654, 5368..5631, 5709..6038, 5722..6039, 6170..6400, 6189..6377, 6665..6730		

Seq. No.	21121	Seq. ID	OJ990907_10.0128.C4
Gene No.	44100	Strand	-
Start	5340	End	7324
Name	OJ990907_10.0128.C4.o1.tm	Method	TBLASTX:Maize

Start	5431	End	6451
GI	none	Score	55
Exons	5431..5601, 5445..5528, 5553..5663, 5706..6038, 5710..6039, 6179..6379, 6189..6383, 6410..6451		

Seq. No.	21121	Seq. ID	OJ990907_10.0128.C4
Gene No.	44100	Strand	-
Start	5340	End	7324
Name	OJ990907_10.0128.C4.o1.tw	Method	TBLASTX:Wheat
Start	5589	End	6012
GI	none	Score	39
Exons	5589..5663, 5602..5631, 5706..6008, 5713..6012		

Seq. No.	21121	Seq. ID	OJ990907_10.0128.C4
Gene No.	44100	Strand	-
Start	5340	End	7324
Name	OJ990907_10.0128.C4.o2.ts	Method	TBLASTX:Soybean
Start	5922	End	6457
GI	none	Score	73
Exons	5922..6038, 5923..6039, 6141..6377, 6164..6403, 6362..6457		

Seq. No.	21121	Seq. ID	OJ990907_10.0128.C4
Gene No.	44101	Strand	-
Start	9117	End	12195
Name	OJ990907_10.0128.C4.o2.tc	Method	TBLASTX:Cress
Start	9117	End	12195
GI	none	Score	56
Exons	9117..9170, 9162..9311, 9203..9304, 9387..9587, 9512..9586, 11337..11588, 11343..11645, 11345..11644, 11760..11813, 11893..12192, 11923..12195		

Seq. No.	21121	Seq. ID	OJ990907_10.0128.C4
Gene No.	44101	Strand	-
Start	9117	End	12195
Name	OJ990907_10.0128.C4.o2.tm	Method	TBLASTX:Maize
Start	9354	End	11621
GI	none	Score	205
Exons	9354..9401, 9387..9581, 9387..9437, 9512..9580, 11343..11621, 11343..11621		

Seq. No.	21122	Seq. ID	OJ990907_10.0128.C6
Gene No.	44102	Strand	-
Start	528	End	1074
Name	OJ990907_10.0128.C6.o1.gp	Method	AAT/GAP
Start	518	End	1074
GI	30964_1.R1084	Score	1059
Exons	518..1074		
GI Descrip.	'1420932/gb U61383 ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'		

Seq. No.	21122	Seq. ID	OJ990907_10.0128.C6
Gene No.	44102	Strand	-
Start	528	End	1074
Name	OJ990907_10.0128.C6.o1.gs	Method	GENSCAN
Start	528	End	1001
GI	none	Score	.82
Exons	528..1001		

Seq. No.	21123	Seq. ID	OJ990907_10.0128.C7
Gene No.	44103	Strand	+
Start	1	End	662
Name	OJ990907_10.0128.C7.o1.np	Method	AAT/NAP
Start	1	End	662
GI	4415931	Score	337
Exons	1..662		
GI Descrip.	(AC006418) putative ubiquitin [Arabidopsis thaliana]		

Seq. No.	21123	Seq. ID	OJ990907_10.0128.C7
Gene No.	44103	Strand	+
Start	1	End	662
Name	OJ990907_10.0128.C7.o1.tm	Method	TBLASTX:Maize
Start	14	End	402
GI	none	Score	317
Exons	14..331, 22..402		

Seq. No.	21123	Seq. ID	OJ990907_10.0128.C7
Gene No.	44103	Strand	+
Start	1	End	662
Name	OJ990907_10.0128.C7.o1.ts	Method	TBLASTX:Soybean
Start	52	End	238
GI	none	Score	206
Exons	52..237, 53..238		

Seq. No.	21123	Seq. ID	OJ990907_10.0128.C7
Gene No.	44103	Strand	+
Start	1	End	662
Name	OJ990907_10.0128.C7.o1.tc	Method	TBLASTX:Cress
Start	52	End	339
GI	none	Score	271
Exons	52..339, 53..337		

Seq. No.	21123	Seq. ID	OJ990907_10.0128.C7
Gene No.	44103	Strand	+
Start	1	End	662
Name	OJ990907_10.0128.C7.o1.gs	Method	GENSCAN
Start	53	End	629
GI	none	Score	.96
Exons	53..629		

Seq. No.	21124	Seq. ID	OJ990907_10.0128.C8
Gene No.	44104	Strand	+
Start	1563	End	3931
Name	OJ990907_10.0128.C8.o1.gs	Method	GENSCAN
Start	1563	End	3931
GI	none	Score	.42
Exons	1563..1624, 2047..2299, 2310..2484, 3747..3931		

Seq. No.	21124	Seq. ID	OJ990907_10.0128.C8
Gene No.	44105	Strand	+
Start	4703	End	7891
Name	OJ990907_10.0128.C8.o2.np	Method	AAT/NAP
Start	4624	End	7891
GI	6587806	Score	426
Exons	4624..5071, 5229..5411, 6293..6421, 6699..6912, 6982..7100,		

7613..7891  
 GI Descrip. (AC010924) Contains similarity to gb|M82916 MRS2 protein from  
 Saccharomyces cerevisiae. ESTs gb|N96043, gb|AI998651,  
 gb|AA585850, gb|T42027 come from this gene. [Arabidopsis  
 thaliana]

Seq. No.	21124	Seq. ID	OJ990907_10.0128.C8
Gene No.	44105	Strand	+
Start	4703	End	7891
Name	OJ990907_10.0128.C8.o2.gs	Method	GENSCAN
Start	4703	End	7124
GI	none	Score	.62
Exons	4703..5119, 5274..5411, 6293..6421, 6699..6829, 6929..7124		

Seq. No.	21124	Seq. ID	OJ990907_10.0128.C8
Gene No.	44105	Strand	+
Start	4703	End	7891
Name	OJ990907_10.0128.C8.o1.gp	Method	AAT/GAP
Start	5238	End	7034
GI	uC-osroM202031e04b1	Score	984
Exons	5238..5411, 6293..6421, 6699..6829, 6941..7034		
GI Descrip.	'4406759/gb AAD20070  8.0e-15 (AC006836) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	21124	Seq. ID	OJ990907_10.0128.C8
Gene No.	44106	Strand	+
Start	9687	End	12555
Name	OJ990907_10.0128.C8.o4.gs	Method	GENSCAN
Start	9687	End	12555
GI	none	Score	.57
Exons	9687..11587, 12129..12288, 12499..12555		

Seq. No.	21124	Seq. ID	OJ990907_10.0128.C8
Gene No.	44107	Strand	+
Start	12975	End	13330
Name	OJ990907_10.0128.C8.o2.gp	Method	AAT/GAP
Start	12975	End	13330
GI	none	Score	664
Exons	12975..13330		

Seq. No.	21124	Seq. ID	OJ990907_10.0128.C8
Gene No.	44108	Strand	+
Start	17287	End	21973
Name	OJ990907_10.0128.C8.o6.gs	Method	GENSCAN
Start	17287	End	21973
GI	none	Score	.79
Exons	17287..17299, 17883..17969, 18083..18189, 20348..20421, 20701..20860, 20956..21014, 21103..21313, 21917..21973		

Seq. No.	21124	Seq. ID	OJ990907_10.0128.C8
Gene No.	44108	Strand	+
Start	17287	End	21973
Name	OJ990907_10.0128.C8.o4.np	Method	AAT/NAP
Start	17876	End	21526
GI	5263329	Score	832
Exons	17876..17969, 18083..18189, 18482..18598, 18675..18771, 20348..20421, 20615..20668, 20756..20849, 20942..21014,		



21103..21313, 21470..21526  
 GI Descrip. (AC007727) Contains PF|00646 F-box domain. ESTs gb|Z37267, gb|R90412, gb|Z37268 and gb|T88189 come from this gene. [Arabidopsis thaliana]

Seq. No. 21124 Seq. ID OJ990907\_10.0128.C8  
 Gene No. 44108 Strand +  
 Start 17287 End 21973  
 Name OJ990907\_10.0128.C8.o4.gp Method AAT/GAP  
 Start 21243 End 21831  
 GI uC-osflcyp079b01a1 Score 830  
 Exons 21243..21313, 21470..21831  
 GI Descrip. '5263329/gb|AAD41431.1|AC007727 20 2.0e-10 (AC007727) Contains PF\_00646 F-box domain. ESTs gb\_Z37267, gb\_R90412, gb\_Z37268 and gb\_T88189 come from this gene. [Arabidopsis thaliana]'

Seq. No. 21124 Seq. ID OJ990907\_10.0128.C8  
 Gene No. 44109 Strand -  
 Start 3499 End 3931  
 Name OJ990907\_10.0128.C8.o1.np Method AAT/NAP  
 Start 3499 End 3931  
 GI 6539570 Score 167  
 Exons 3499..3565, 3737..3931  
 GI Descrip. (AP000836) hypothetical protein [Oryza sativa]

Seq. No. 21124 Seq. ID OJ990907\_10.0128.C8  
 Gene No. 44110 Strand -  
 Start 7595 End 7930  
 Name OJ990907\_10.0128.C8.o3.gs Method GENSCAN  
 Start 7595 End 7930  
 GI none Score .46  
 Exons 7595..7930

Seq. No. 21124 Seq. ID OJ990907\_10.0128.C8  
 Gene No. 44111 Strand -  
 Start 13654 End 16070  
 Name OJ990907\_10.0128.C8.o5.gs Method GENSCAN  
 Start 13654 End 15616  
 GI none Score .81  
 Exons 13654..13764, 14160..14621, 15410..15616

Seq. No. 21124 Seq. ID OJ990907\_10.0128.C8  
 Gene No. 44111 Strand -  
 Start 13654 End 16070  
 Name OJ990907\_10.0128.C8.o3.np Method AAT/NAP  
 Start 13717 End 16070  
 GI 4583546 Score 395  
 Exons 13717..13927, 14160..14616, 16018..16070  
 GI Descrip. (AJ010819) GrpE protein [Arabidopsis thaliana]

Seq. No. 21124 Seq. ID OJ990907\_10.0128.C8  
 Gene No. 44111 Strand -  
 Start 13654 End 16070  
 Name OJ990907\_10.0128.C8.o3.gp Method AAT/GAP  
 Start 14148 End 15608  
 GI 9372\_1.R1084 Score 1093  
 Exons 14148..14621, 15410..15608

GI Descrip. '4583546/emb|CAB40381.1| 1.0e-21 (AJ010819) GrpE protein  
[Arabidopsis thaliana]'

Seq. No.	21124	Seq. ID	OJ990907_10.0128.C8
Gene No.	44112	Strand	-
Start	21938	End	22044
Name	OJ990907_10.0128.C8.o2.tc	Method	TBLASTX:Cress
Start	319	End	477
GI	none	Score	99
Exons	319..477, 320..466		

Seq. No.	21124	Seq. ID	OJ990907_10.0128.C8
Gene No.	44112	Strand	-
Start	21938	End	22044
Name	OJ990907_10.0128.C8.o4.ts	Method	TBLASTX:Soybean
Start	319	End	475
GI	none	Score	117
Exons	319..474, 320..475		

Seq. No.	21124	Seq. ID	OJ990907_10.0128.C8
Gene No.	44112	Strand	-
Start	21938	End	22044
Name	OJ990907_10.0128.C8.o5.tm	Method	TBLASTX:Maize
Start	5322	End	7780
GI	none	Score	107
Exons	5322..5423, 5348..5422, 6287..6421, 6288..6422, 6290..6424, 6292..6426, 6292..6465, 7017..7088, 7619..7780		

Seq. No.	21124	Seq. ID	OJ990907_10.0128.C8
Gene No.	44112	Strand	-
Start	21938	End	22044
Name	OJ990907_10.0128.C8.o3.ts	Method	TBLASTX:Soybean
Start	5340	End	7783
GI	none	Score	74
Exons	5340..5405, 6308..6424, 6322..6426, 7026..7088, 7619..7783		

Seq. No.	21124	Seq. ID	OJ990907_10.0128.C8
Gene No.	44112	Strand	-
Start	21938	End	22044
Name	OJ990907_10.0128.C8.o3.tm	Method	TBLASTX:Maize
Start	10380	End	10979
GI	none	Score	109
Exons	10380..10586, 10472..10585, 10575..10721, 10588..10704, 10642..10734, 10666..10734, 10671..10964, 10738..10917, 10789..10971, 10793..10966, 10800..10979		

Seq. No.	21124	Seq. ID	OJ990907_10.0128.C8
Gene No.	44112	Strand	-
Start	21938	End	22044
Name	OJ990907_10.0128.C8.o2.tm	Method	TBLASTX:Maize
Start	10997	End	12980
GI	none	Score	111
Exons	10997..11143, 10998..11141, 11005..11157, 11007..11168, 11137..11265, 11139..11291, 11159..11452, 11175..11447, 11326..11448, 11455..11586, 11460..11582, 11463..11588, 11464..11586, 12112..12288, 12139..12288, 12147..12293, 12156..12290, 12496..12549, 12498..12548, 12933..12980		

Seq. No.	21124	Seq. ID	OJ990907_10.0128.C8
Gene No.	44112	Strand	-
Start	21938	End	22044
Name	OJ990907_10.0128.C8.o4.tm	Method	TBLASTX:Maize
Start	13784	End	14456
GI	none	Score	86
Exons	13784..13927, 14145..14456, 14164..14241, 14299..14424		

Seq. No.	21124	Seq. ID	OJ990907_10.0128.C8
Gene No.	44112	Strand	-
Start	21938	End	22044
Name	OJ990907_10.0128.C8.o1.ts	Method	TBLASTX:Soybean
Start	13793	End	14597
GI	none	Score	87
Exons	13793..13927, 14145..14597, 14158..14241, 14299..14442		

Seq. No.	21124	Seq. ID	OJ990907_10.0128.C8
Gene No.	44112	Strand	-
Start	21938	End	22044
Name	OJ990907_10.0128.C8.o3.tc	Method	TBLASTX:Cress
Start	13835	End	14378
GI	none	Score	76
Exons	13835..13927, 14145..14378, 14147..14284, 14166..14369, 14308..14376		

Seq. No.	21124	Seq. ID	OJ990907_10.0128.C8
Gene No.	44112	Strand	-
Start	21938	End	22044
Name	OJ990907_10.0128.C8.o1.tw	Method	TBLASTX:Wheat
Start	14463	End	14648
GI	none	Score	172
Exons	14463..14624, 14464..14625, 14548..14625, 14549..14626, 14565..14648		

Seq. No.	21124	Seq. ID	OJ990907_10.0128.C8
Gene No.	44112	Strand	-
Start	21938	End	22044
Name	OJ990907_10.0128.C8.o1.tm	Method	TBLASTX:Maize
Start	17874	End	21532
GI	none	Score	142
Exons	17874..17969, 17879..17989, 17881..17976, 17914..17991, 18084..18176, 18084..18140, 18085..18192, 18086..18175, 18472..18597, 18479..18604, 18480..18596, 18481..18603, 18672..18776, 18672..18773, 20346..20423, 20347..20412, 20349..20432, 20614..20667, 20615..20671, 20753..20878, 20755..20859, 20953..21024, 20953..21036, 21083..21277, 21086..21253, 21247..21315, 21252..21314, 21467..21532, 21469..21528		

Seq. No.	21124	Seq. ID	OJ990907_10.0128.C8
Gene No.	44112	Strand	-
Start	21938	End	22044
Name	OJ990907_10.0128.C8.o1.tc	Method	TBLASTX:Cress
Start	18094	End	18773
GI	none	Score	80
Exons	18094..18207, 18472..18582, 18479..18589, 18487..18600,		

18681..18773, 18693..18755

Seq. No.	21124	Seq. ID	OJ990907_10.0128.C8
Gene No.	44112	Strand	-
Start	21938	End	22044
Name	OJ990907_10.0128.C8.o2.ts	Method	TBLASTX:Soybean
Start	18142	End	18740
GI	none	Score	68
Exons	18142..18192, 18479..18601, 18479..18598, 18484..18600, 18681..18740		

Seq. No.	21124	Seq. ID	OJ990907_10.0128.C8
Gene No.	44112	Strand	-
Start	21938	End	22044
Name	OJ990907_10.0128.C8.o5.gp	Method	AAT/GAP
Start	21938	End	22044
GI	none	Score	186
Exons	21938..22044		

Seq. No.	21125	Seq. ID	OJ990907_10.0128.C9
Gene No.	44113	Strand	+
Start	923	End	3380
Name	OJ990907_10.0128.C9.o1.gs	Method	GENSCAN
Start	923	End	3380
GI	none	Score	.73
Exons	923..1116, 1758..1813, 2698..2732, 2817..3047, 3237..3380		

Seq. No.	21125	Seq. ID	OJ990907_10.0128.C9
Gene No.	44114	Strand	+
Start	22341	End	33722
Name	OJ990907_10.0128.C9.o6.gs	Method	GENSCAN
Start	22341	End	33722
GI	none	Score	.52
Exons	22341..22397, 22411..22451, 22981..23258, 23372..23509, 25047..25109, 25484..25524, 28348..28617, 28665..28739, 28866..28967, 29056..29109, 29166..29307, 29865..29957, 30065..30171, 32668..32772, 32856..32954, 33040..33358, 33642..33722		

Seq. No.	21125	Seq. ID	OJ990907_10.0128.C9
Gene No.	44114	Strand	+
Start	22341	End	33722
Name	OJ990907_10.0128.C9.o3.gp	Method	AAT/GAP
Start	28183	End	29307
GI	60901_1.R1084	Score	1211
Exons	28183..28540, 28665..28739, 28866..28967, 29056..29109, 29215..29307		
GI Descrip.	'3046731/emb CAA06503  3.0e-69 (AJ005373) protein kinase [Craterostigma plantagineum]'		

Seq. No.	21125	Seq. ID	OJ990907_10.0128.C9
Gene No.	44114	Strand	+
Start	22341	End	33722
Name	OJ990907_10.0128.C9.o3.np	Method	AAT/NAP
Start	28421	End	33375
GI	1362051	Score	1303
Exons	28421..28540, 28665..28739, 28866..28967, 29056..29109,		

29215..29307, 29865..29957, 32668..32772, 32856..32954,  
33040..33375

GI Descrip. protein kinase 3 - soybean gi|310582 (L19361) protein kinase 3  
[Glycine max]

Seq. No.	21125	Seq. ID	OJ990907_10.0128.C9
Gene No.	44114	Strand	+
Start	22341	End	33722
Name	OJ990907_10.0128.C9.o4.gp	Method	AAT/GAP
Start	32873	End	33639
GI	70271_1.R1084	Score	1308
Exons	32873..32954, 33040..33639		
GI Descrip.	'1362051/pir  S56716 4.0e-37 protein kinase 3 - soybean >gi_310582 (L19361) protein kinase 3 [Glycine max]'		

Seq. No.	21125	Seq. ID	OJ990907_10.0128.C9
Gene No.	44115	Strand	-
Start	821	End	1260
Name	OJ990907_10.0128.C9.o1.np	Method	AAT/NAP
Start	821	End	1191
GI	6382501	Score	173
Exons	821..1028, 1089..1191		
GI Descrip.	(AC010704) unknown protein [Arabidopsis thaliana]		

Seq. No.	21125	Seq. ID	OJ990907_10.0128.C9
Gene No.	44115	Strand	-
Start	821	End	1260
Name	OJ990907_10.0128.C9.o1.gp	Method	AAT/GAP
Start	992	End	1260
GI	none	Score	530
Exons	992..1260		

Seq. No.	21125	Seq. ID	OJ990907_10.0128.C9
Gene No.	44116	Strand	-
Start	5283	End	5963
Name	OJ990907_10.0128.C9.o2.gs	Method	GENSCAN
Start	5283	End	5963
GI	none	Score	.96
Exons	5283..5963		

Seq. No.	21125	Seq. ID	OJ990907_10.0128.C9
Gene No.	44117	Strand	-
Start	7127	End	7863
Name	OJ990907_10.0128.C9.o3.gs	Method	GENSCAN
Start	7127	End	7863
GI	none	Score	.71
Exons	7127..7153, 7319..7475, 7542..7770, 7812..7863		

Seq. No.	21125	Seq. ID	OJ990907_10.0128.C9
Gene No.	44118	Strand	-
Start	16409	End	21532
Name	OJ990907_10.0128.C9.o3.tm	Method	TBLASTX:Maize
Start	892	End	1155
GI	none	Score	155
Exons	892..996, 892..1032, 1123..1155		

Seq. No.	21125	Seq. ID	OJ990907_10.0128.C9
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Gene No.	44118	Strand	-
Start	16409	End	21532
Name	OJ990907_10.0128.C9.o2.tm	Method	TBLASTX:Maize
Start	14345	End	14608
GI	none	Score	181
Exons	14345..14512, 14368..14499, 14507..14608, 14518..14592		
Seq. No.	21125	Seq. ID	OJ990907_10.0128.C9
Gene No.	44118	Strand	-
Start	16409	End	21532
Name	OJ990907_10.0128.C9.o2.gp	Method	AAT/GAP
Start	16173	End	17086
GI	uC-osflcyp170d07a1	Score	1033
Exons	16173..16654, 17028..17086		
GI Descrip.	'2245058/emb CAB10481.1  2.0e-09 (Z97342) hypothetical protein [Arabidopsis thaliana]'		
Seq. No.	21125	Seq. ID	OJ990907_10.0128.C9
Gene No.	44118	Strand	-
Start	16409	End	21532
Name	OJ990907_10.0128.C9.o2.np	Method	AAT/NAP
Start	16398	End	17060
GI	2245058	Score	110
Exons	16398..16654, 17028..17060		
GI Descrip.	(Z97342) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	21125	Seq. ID	OJ990907_10.0128.C9
Gene No.	44118	Strand	-
Start	16409	End	21532
Name	OJ990907_10.0128.C9.o5.gs	Method	GENSCAN
Start	16409	End	21532
GI	none	Score	.43
Exons	16409..16654, 17028..17138, 18726..18924, 20104..20204, 21509..21532		
Seq. No.	21125	Seq. ID	OJ990907_10.0128.C9
Gene No.	44119	Strand	-
Start	28379	End	33569
Name	OJ990907_10.0128.C9.o1.tc	Method	TBLASTX:Cress
Start	28379	End	33384
GI	none	Score	157
Exons	28379..28525, 28421..28540, 28459..28539, 28662..28742, 28664..28741, 28853..28966, 28863..28973, 29046..29114, 29053..29109, 29209..29307, 29214..29306, 29215..29307, 29843..29956, 29883..29975, 32665..32757, 32671..32769, 32853..32954, 32858..32941, 33028..33141, 33039..33137, 33147..33245, 33148..33246, 33337..33384		
Seq. No.	21125	Seq. ID	OJ990907_10.0128.C9
Gene No.	44119	Strand	-
Start	28379	End	33569
Name	OJ990907_10.0128.C9.o1.tm	Method	TBLASTX:Maize
Start	28414	End	33569
GI	none	Score	103
Exons	28414..28539, 28415..28540, 28415..28531, 28462..28539, 28659..28742, 28659..28739, 28664..28741, 28853..28966, 28863..28973, 28911..28967, 28912..29022, 29046..29114,		

29053..29109, 29213..29302, 29214..29303, 29215..29307,  
 29215..29307, 29843..29956, 29883..29975, 29891..30007,  
 32671..32772, 32674..32772, 32681..32815, 32855..32953,  
 32855..32953, 32856..32954, 32856..32954, 33023..33121,  
 33027..33149, 33028..33174, 33123..33224, 33123..33245,  
 33124..33264, 33334..33369, 33336..33410, 33525..33569

Seq. No.	21125	Seq. ID	OJ990907_10.0128.C9
Gene No.	44119	Strand	
Start	28379	End	33569
Name	OJ990907_10.0128.C9.o1.ts	Method	TBLASTX:Soybean
Start	28418	End	33132
GI	none	Score	173
Exons	28418..28540, 28421..28531, 28459..28533, 28662..28742, 28664..28741, 28853..28966, 28863..28973, 29046..29114, 29053..29109, 29201..29302, 29208..29288, 29208..29306, 29209..29307, 29843..29953, 29883..29975, 32666..32767, 32671..32769, 32674..32769, 32853..32945, 32856..32954, 32858..32950, 33027..33107, 33028..33132		

Seq. No.	21125	Seq. ID	OJ990907_10.0128.C9
Gene No.	44119	Strand	
Start	28379	End	33569
Name	OJ990907_10.0128.C9.o1.tw	Method	TBLASTX:Wheat
Start	28685	End	29307
GI	none	Score	99
Exons	28685..28741, 28686..28742, 28686..28742, 28853..28966, 28863..28973, 29046..29114, 29053..29109, 29214..29306, 29215..29307		

Seq. No.	21126	Seq. ID	OJ990907_10.0128.C10
Gene No.	44120	Strand	+
Start	1050	End	1905
Name	OJ990907_10.0128.C10.o1.gs	Method	GENSCAN
Start	1050	End	1905
GI	none	Score	.5
Exons	1050..1300, 1881..1905		

Seq. No.	21126	Seq. ID	OJ990907_10.0128.C10
Gene No.	44121	Strand	+
Start	2480	End	2541
Name	OJ990907_10.0128.C10.o2.gp	Method	AAT/GAP
Start	2480	End	2541
GI	2312838	Score	75
Exons	2480..2541		
GI Descrip.	1420932/gb U61383 ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence		

Seq. No.	21126	Seq. ID	OJ990907_10.0128.C10
Gene No.	44122	Strand	-
Start	2393	End	2477
Name	OJ990907_10.0128.C10.o1.gp	Method	AAT/GAP
Start	2393	End	2477
GI	5455354	Score	110
Exons	2393..2477		
GI Descrip.	6016845/dbj AP000570.1 AP000570 6.0e-28 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10		

Seq. No.	21126	Seq. ID	OJ990907_10.0128.C10
Gene No.	44123	Strand	-
Start	3002	End	3928
Name	OJ990907_10.0128.C10.o2.gs	Method	GENSCAN
Start	3002	End	3868
GI	none	Score	1
Exons	3002..3868		
Seq. No.	21126	Seq. ID	OJ990907_10.0128.C10
Gene No.	44123	Strand	-
Start	3002	End	3928
Name	OJ990907_10.0128.C10.o1.np	Method	AAT/NAP
Start	3032	End	3928
GI	4160441	Score	187
Exons	3032..3240, 3271..3447, 3484..3778, 3839..3928		
GI Descrip.	(AF098674) lateral suppressor protein [Lycopersicon esculentum]		
Seq. No.	21127	Seq. ID	OJ990907_10.0128.C11
Gene No.	44124	Strand	+
Start	40	End	660
Name	OJ990907_10.0128.C11.o1.gs	Method	GENSCAN
Start	40	End	660
GI	none	Score	.93
Exons	40..660		
Seq. No.	21128	Seq. ID	OJ990907_10.0128.C14
Gene No.	44125	Strand	+
Start	844	End	2641
Name	OJ990907_10.0128.C14.o2.np	Method	AAT/NAP
Start	844	End	2641
GI	4415932	Score	827
Exons	844..1727, 1896..2641		
GI Descrip.	(AC006418) putative bHLH transcription factor [Arabidopsis thaliana]		
Seq. No.	21128	Seq. ID	OJ990907_10.0128.C14
Gene No.	44126	Strand	-
Start	1	End	2466
Name	OJ990907_10.0128.C14.o1.np	Method	AAT/NAP
Start	1	End	2466
GI	5732634	Score	71
Exons	1..93, 225..334, 1102..1261, 1480..1734, 2414..2466		
GI Descrip.	(AF121009) hypothetical protein Jv0534 [Mycobacterium tuberculosis H37Rv]		
Seq. No.	21128	Seq. ID	OJ990907_10.0128.C14
Gene No.	44127	Strand	-
Start	2544	End	3033
Name	OJ990907_10.0128.C14.o1.tw	Method	TBLASTX:Wheat
Start	828	End	1234
GI	none	Score	538
Exons	828..1229, 828..1232, 845..1234, 856..1233		
Seq. No.	21128	Seq. ID	OJ990907_10.0128.C14
Gene No.	44127	Strand	-
Start	2544	End	3033



Name	OJ990907_10.0128.C14.o1.tm	Method	TBLASTX:Maize
Start	935	End	1658
GI	none	Score	989
Exons	935..1306, 945..1601, 945..1601, 1589..1657, 1590..1658		
Seq. No.	21128	Seq. ID	OJ990907_10.0128.C14
Gene No.	44127	Strand	-
Start	2544	End	3033
Name	OJ990907_10.0128.C14.o2.ts	Method	TBLASTX:Soybean
Start	1149	End	1376
GI	none	Score	248
Exons	1149..1376, 1167..1370		
Seq. No.	21128	Seq. ID	OJ990907_10.0128.C14
Gene No.	44127	Strand	-
Start	2544	End	3033
Name	OJ990907_10.0128.C14.o1.ts	Method	TBLASTX:Soybean
Start	1427	End	2609
GI	none	Score	348
Exons	1427..1510, 1625..1654, 2128..2316, 2139..2369, 2172..2333, 2186..2344, 2421..2609		
Seq. No.	21128	Seq. ID	OJ990907_10.0128.C14
Gene No.	44127	Strand	-
Start	2544	End	3033
Name	OJ990907_10.0128.C14.o4.tm	Method	TBLASTX:Maize
Start	1715	End	1910
GI	none	Score	114
Exons	1715..1876, 1720..1845, 1725..1883, 1827..1910, 1838..1900		
Seq. No.	21128	Seq. ID	OJ990907_10.0128.C14
Gene No.	44127	Strand	-
Start	2544	End	3033
Name	OJ990907_10.0128.C14.o3.tm	Method	TBLASTX:Maize
Start	2010	End	2339
GI	none	Score	307
Exons	2010..2207, 2015..2224, 2016..2222, 2156..2335, 2181..2339, 2225..2335		
Seq. No.	21128	Seq. ID	OJ990907_10.0128.C14
Gene No.	44127	Strand	-
Start	2544	End	3033
Name	OJ990907_10.0128.C14.o1.tc	Method	TBLASTX:Cress
Start	2165	End	2603
GI	none	Score	108
Exons	2165..2350, 2166..2372, 2186..2344, 2424..2603		
Seq. No.	21128	Seq. ID	OJ990907_10.0128.C14
Gene No.	44127	Strand	-
Start	2544	End	3033
Name	OJ990907_10.0128.C14.o2.tm	Method	TBLASTX:Maize
Start	2340	End	2807
GI	none	Score	124
Exons	2340..2423, 2370..2423, 2424..2564, 2468..2566, 2474..2563, 2546..2656, 2552..2653, 2556..2660, 2557..2655, 2559..2807		
Seq. No.	21128	Seq. ID	OJ990907_10.0128.C14

Gene No.	44127	Strand	-
Start	2544	End	3033
Name	OJ990907_10.0128.C14.o2.tw	Method	TBLASTX:Wheat
Start	2484	End	2740
GI	none	Score	215
Exons	2484..2660, 2486..2674, 2502..2735, 2503..2661, 2690..2740		

Seq. No.	21128	Seq. ID	OJ990907_10.0128.C14
Gene No.	44127	Strand	-
Start	2544	End	3033
Name	OJ990907_10.0128.C14.o1.gp	Method	AAT/GAP
Start	2544	End	3033
GI	46570_1.R1084	Score	934
Exons	2544..3033		
GI Descrip.	'1420932/gb U61383 ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'		

Seq. No.	21129	Seq. ID	OJ990907_10.0128.C15
Gene No.	44128	Strand	-
Start	1575	End	3232
Name	OJ990907_10.0128.C15.o2.gs	Method	GENSCAN
Start	1575	End	3232
GI	none	Score	.7
Exons	1575..1647, 1814..1963, 2128..2388, 3149..3232		

Seq. No.	21130	Seq. ID	OJ990907_10.0128.C16
Gene No.	44129	Strand	+
Start	56	End	379
Name	OJ990907_10.0128.C16.o1.gs	Method	GENSCAN
Start	56	End	379
GI	none	Score	.93
Exons	56..379		

Seq. No.	21131	Seq. ID	OJ990907_10.0128.C18
Gene No.	44130	Strand	+
Start	263	End	352
Name	OJ990907_10.0128.C18.o1.gs	Method	GENSCAN
Start	263	End	352
GI	none	Score	.81
Exons	263..352		

Seq. No.	21132	Seq. ID	OJ990907_10.0128.C20
Gene No.	44131	Strand	+
Start	1	End	3216
Name	OJ990907_10.0128.C20.o1.np	Method	AAT/NAP
Start	1	End	3216
GI	4510377	Score	162
Exons	1..33, 151..317, 587..643, 767..850, 1779..1877, 1990..2094, 3163..3216		
GI Descrip.	(AC007017) putative ATP-dependent RNA helicase A [Arabidopsis thaliana]		

Seq. No.	21132	Seq. ID	OJ990907_10.0128.C20
Gene No.	44131	Strand	+
Start	1	End	3216
Name	OJ990907_10.0128.C20.o2.tm	Method	TBLASTX:Maize
Start	233	End	1826

GI	none	Score	126
Exons	233..316, 234..317, 262..321, 578..646, 578..646, 585..653, 765..851, 766..849, 767..859, 1776..1826, 1778..1825		

Seq. No.	21132	Seq. ID	OJ990907_10.0128.C20
Gene No.	44131	Strand	+
Start	1	End	3216
Name	OJ990907_10.0128.C20.ol.gs	Method	GENSCAN
Start	587	End	2094
GI	none	Score	.66
Exons	587..643, 767..850, 1779..1877, 1957..2094		

Seq. No.	21132	Seq. ID	OJ990907_10.0128.C20
Gene No.	44131	Strand	+
Start	1	End	3216
Name	OJ990907_10.0128.C20.ol.tm	Method	TBLASTX:Maize
Start	1854	End	2365
GI	none	Score	42
Exons	1854..1877, 1854..1877, 1941..2087, 1954..2088, 2285..2365, 2286..2363		

Seq. No.	21133	Seq. ID	OJ990907_10.0128.C21
Gene No.	44132	Strand	+
Start	438	End	2018
Name	OJ990907_10.0128.C21.ol.gs	Method	GENSCAN
Start	438	End	1852
GI	none	Score	.92
Exons	438..507, 1068..1166, 1367..1579, 1760..1852		

Seq. No.	21133	Seq. ID	OJ990907_10.0128.C21
Gene No.	44132	Strand	+
Start	438	End	2018
Name	OJ990907_10.0128.C21.ol.np	Method	AAT/NAP
Start	1503	End	2018
GI	3283912	Score	45
Exons	1503..1579, 1760..1852, 1994..2018		
GI Descrip.	(AF070639) unknown [Homo sapiens]		

Seq. No.	21134	Seq. ID	OJ990907_10.0128.C22
Gene No.	44133	Strand	-
Start	601	End	928
Name	OJ990907_10.0128.C22.ol.gp	Method	AAT/GAP
Start	601	End	928
GI	2428516	Score	639
Exons	601..928		

Seq. No.	21134	Seq. ID	OJ990907_10.0128.C22
Gene No.	44133	Strand	-
Start	601	End	928
Name	OJ990907_10.0128.C22.ol.gs	Method	GENSCAN
Start	601	End	884
GI	none	Score	.83
Exons	601..884		

Seq. No.	21135	Seq. ID	OJ990907_10.0128.C23
Gene No.	44134	Strand	
Start	1189	End	1411

Name	OJ990907_10.0128.C23.o1.ts	Method	TBLASTX:Soybean
Start	1189	End	1393
GI	none	Score	251
Exons	1189..1332, 1193..1393		
Seq. No.	21135	Seq. ID	OJ990907_10.0128.C23
Gene No.	44134	Strand	
Start	1189	End	1411
Name	OJ990907_10.0128.C23.o1.tc	Method	TBLASTX:Cress
Start	1192	End	1405
GI	none	Score	240
Exons	1192..1332, 1193..1405		
Seq. No.	21135	Seq. ID	OJ990907_10.0128.C23
Gene No.	44134	Strand	
Start	1189	End	1411
Name	OJ990907_10.0128.C23.o1.tm	Method	TBLASTX:Maize
Start	1213	End	1411
GI	none	Score	254
Exons	1213..1332, 1214..1411, 1280..1333		
Seq. No.	21136	Seq. ID	OJ990907_10.0128.C24
Gene No.	44135	Strand	+
Start	1	End	2199
Name	OJ990907_10.0128.C24.o1.gp	Method	AAT/GAP
Start	1	End	2199
GI	33921_1.R1084	Score	2179
Exons	1..85, 1017..1403, 1537..2199		
GI Descrip.	'5834248/gb AAD53877.1 AF175124_1 1.0e-147 (AF175124) SINAH1 protein [Gossypium hirsutum]'		
Seq. No.	21136	Seq. ID	OJ990907_10.0128.C24
Gene No.	44135	Strand	+
Start	1	End	2199
Name	OJ990907_10.0128.C24.o1.tm	Method	TBLASTX:Maize
Start	1	End	1408
GI	none	Score	123
Exons	1..81, 2..85, 23..85, 1014..1406, 1016..1408		
Seq. No.	21136	Seq. ID	OJ990907_10.0128.C24
Gene No.	44135	Strand	+
Start	1	End	2199
Name	OJ990907_10.0128.C24.o1.np	Method	AAT/NAP
Start	1	End	1890
GI	6850870	Score	1288
Exons	1..85, 1017..1403, 1537..1890		
GI Descrip.	(AL132959) seven in absentia-like protein [Arabidopsis thaliana]		
Seq. No.	21136	Seq. ID	OJ990907_10.0128.C24
Gene No.	44135	Strand	+
Start	1	End	2199
Name	OJ990907_10.0128.C24.o2.tc	Method	TBLASTX:Cress
Start	25	End	1839
GI	none	Score	111
Exons	25..81, 26..85, 1531..1794, 1543..1806, 1557..1805, 1804..1839		
Seq. No.	21136	Seq. ID	OJ990907_10.0128.C24

Gene No.	44135	Strand	+
Start	1	End	2199
Name	OJ990907_10.0128.C24.o1.gs	Method	GENSCAN
Start	725	End	1896
GI	none	Score	.82
Exons	725..727, 1017..1105, 1352..1403, 1501..1896		

Seq. No.	21136	Seq. ID	OJ990907_10.0128.C24
Gene No.	44135	Strand	+
Start	1	End	2199
Name	OJ990907_10.0128.C24.o1.ts	Method	TBLASTX:Soybean
Start	1013	End	1911
GI	none	Score	673
Exons	1013..1405, 1014..1406, 1530..1868, 1536..1682, 1537..1869, 1846..1911		

Seq. No.	21136	Seq. ID	OJ990907_10.0128.C24
Gene No.	44135	Strand	+
Start	1	End	2199
Name	OJ990907_10.0128.C24.o1.tc	Method	TBLASTX:Créss
Start	1064	End	1348
GI	none	Score	451
Exons	1064..1348, 1065..1346		

Seq. No.	21136	Seq. ID	OJ990907_10.0128.C24
Gene No.	44135	Strand	+
Start	1	End	2199
Name	OJ990907_10.0128.C24.o2.tm	Method	TBLASTX:Maize
Start	1530	End	1926
GI	none	Score	225
Exons	1530..1919, 1535..1795, 1537..1926		

Seq. No.	21137	Seq. ID	OJ990907_10.0128.C25
Gene No.	44136	Strand	+
Start	524	End	628
Name	OJ990907_10.0128.C25.o1.gs	Method	GENSCAN
Start	524	End	628
GI	none	Score	.62
Exons	524..628		

Seq. No.	21138	Seq. ID	OJ990907_10.0128.C26
Gene No.	44137	Strand	-
Start	368	End	518
Name	OJ990907_10.0128.C26.o1.gs	Method	GENSCAN
Start	368	End	518
GI	none	Score	.69
Exons	368..430, 459..518		

Seq. No.	21139	Seq. ID	OJ990907_10.0128.C27
Gene No.	44138	Strand	+
Start	146	End	584
Name	OJ990907_10.0128.C27.o1.gs	Method	GENSCAN
Start	146	End	364
GI	none	Score	.85
Exons	146..175, 263..364		

Seq. No.	21139	Seq. ID	OJ990907_10.0128.C27
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Gene No.	44138	Strand	+
Start	146	End	584
Name	OJ990907_10.0128.C27.o1.np	Method	AAT/NAP
Start	263	End	584
GI	3913436	Score	72
Exons	263..364, 465..584		
GI Descrip.	PROBABLE ATP-DEPENDENT RNA HELICASE A (NUCLEAR DNA HELICASE II) (NDH II)		

Seq. No.	21139	Seq. ID	OJ990907_10.0128.C27
Gene No.	44138	Strand	+
Start	146	End	584
Name	OJ990907_10.0128.C27.o1.tm	Method	TBLASTX:Maize
Start	275	End	584
GI	none	Score	154
Exons	275..364, 275..364, 276..389, 464..583, 465..584		

Seq. No.	21139	Seq. ID	OJ990907_10.0128.C27
Gene No.	44138	Strand	+
Start	146	End	584
Name	OJ990907_10.0128.C27.o1.ts	Method	TBLASTX:Soybean
Start	293	End	584
GI	none	Score	105
Exons	293..364, 464..574, 465..584		

Seq. No.	21140	Seq. ID	OJ990907_10.0128.C31
Gene No.	44139	Strand	+
Start	163	End	380
Name	OJ990907_10.0128.C31.o1.tw	Method	TBLASTX:Wheat
Start	8	End	354
GI	none	Score	125
Exons	8..148, 9..149, 154..354, 165..305		

Seq. No.	21140	Seq. ID	OJ990907_10.0128.C31
Gene No.	44139	Strand	+
Start	163	End	380
Name	OJ990907_10.0128.C31.o1.tm	Method	TBLASTX:Maize
Start	9	End	372
GI	none	Score	113
Exons	9..155, 154..228, 165..317, 265..372		

Seq. No.	21140	Seq. ID	OJ990907_10.0128.C31
Gene No.	44139	Strand	+
Start	163	End	380
Name	OJ990907_10.0128.C31.o1.ts	Method	TBLASTX:Soybean
Start	45	End	375
GI	none	Score	102
Exons	45..152, 72..128, 157..375, 165..317		

Seq. No.	21140	Seq. ID	OJ990907_10.0128.C31
Gene No.	44139	Strand	+
Start	163	End	380
Name	OJ990907_10.0128.C31.o1.np	Method	AAT/NAP
Start	163	End	380
GI	1419129	Score	328
Exons	163..380		
GI Descrip.	(Z75517) reverse transcriptase [Oryza sativa]		

Seq. No.	21141	Seq. ID	OJ990907_10.0128.C33
Gene No.	44140	Strand	+
Start	142	End	195
Name	OJ990907_10.0128.C33.o1.gs	Method	GENSCAN
Start	142	End	195
GI	none	Score	.53
Exons	142..195		

Seq. No.	21142	Seq. ID	OJ990907_10.0128.C37
Gene No.	44141	Strand	+
Start	606	End	3387
Name	OJ990907_10.0128.C37.o1.gs	Method	GENSCAN
Start	606	End	3387
GI	none	Score	.71
Exons	606..743, 943..1078, 1210..1734, 1815..2455, 2680..2946, 3382..3387		

Seq. No.	21142	Seq. ID	OJ990907_10.0128.C37
Gene No.	44141	Strand	+
Start	606	End	3387
Name	OJ990907_10.0128.C37.o1.np	Method	AAT/NAP
Start	1245	End	2958
GI	6358763	Score	558
Exons	1245..1712, 1799..2958		
GI Descrip.	(AC011665) unknown protein [Arabidopsis thaliana]		

Seq. No.	21142	Seq. ID	OJ990907_10.0128.C37
Gene No.	44141	Strand	+
Start	606	End	3387
Name	OJ990907_10.0128.C37.o1.tm	Method	TBLASTX:Maize
Start	2431	End	2907
GI	none	Score	70
Exons	2431..2574, 2524..2631, 2546..2623, 2608..2907, 2610..2906		

Seq. No.	21142	Seq. ID	OJ990907_10.0128.C37
Gene No.	44141	Strand	+
Start	606	End	3387
Name	OJ990907_10.0128.C37.o1.ts	Method	TBLASTX:Soybean
Start	2431	End	2979
GI	none	Score	78
Exons	2431..2544, 2547..2747, 2548..2979, 2862..2978		

Seq. No.	21142	Seq. ID	OJ990907_10.0128.C37
Gene No.	44141	Strand	+
Start	606	End	3387
Name	OJ990907_10.0128.C37.o1.gp	Method	AAT/GAP
Start	2446	End	2664
GI	2799626	Score	399
Exons	2446..2664		

Seq. No.	21143	Seq. ID	OJ990907_10.0128.C38
Gene No.	44142	Strand	-
Start	22	End	2504
Name	OJ990907_10.0128.C38.o1.gs	Method	GENSCAN
Start	22	End	2457
GI	none	Score	.6

Exons 22..225, 870..1065, 2249..2457

Seq. No. 21143 Seq. ID OJ990907\_10.0128.C38  
Gene No. 44142 Strand -  
Start 22 End 2504  
Name OJ990907\_10.0128.C38.o1.tm Method TBLASTX:Maize  
Start 699 End 2391  
GI none Score 208  
Exons 699..749, 828..1037, 829..1038, 1027..1110, 1034..1096,  
1038..1106, 1090..1176, 1105..1176, 1106..1258, 1107..1259,  
2251..2283, 2252..2284, 2284..2391, 2285..2371

Seq. No. 21143 Seq. ID OJ990907\_10.0128.C38  
Gene No. 44142 Strand -  
Start 22 End 2504  
Name OJ990907\_10.0128.C38.o1.ts Method TBLASTX:Soybean  
Start 828 End 2379  
GI none Score 35  
Exons 828..923, 829..861, 853..924, 946..1113, 948..1112, 1112..1258,  
1113..1259, 2251..2379, 2252..2371

Seq. No. 21143 Seq. ID OJ990907\_10.0128.C38  
Gene No. 44142 Strand -  
Start 22 End 2504  
Name OJ990907\_10.0128.C38.o1.tc Method TBLASTX:Cress  
Start 864 End 2379  
GI none Score 54  
Exons 864..935, 946..1104, 948..1103, 1112..1258, 1113..1256,  
2302..2379

Seq. No. 21143 Seq. ID OJ990907\_10.0128.C38  
Gene No. 44142 Strand -  
Start 22 End 2504  
Name OJ990907\_10.0128.C38.o1.gp Method AAT/GAP  
Start 896 End 2504  
GI 23859\_1.R1084 Score 1187  
Exons 896..1256, 2249..2504  
GI Descrip. '5734756/gb|AAD50021.1|AC007651 16 5.0e-30 (AC007651) Similar to  
SOUL Protein [Arabidopsis thaliana]'

Seq. No. 21144 Seq. ID OJ990907\_10.0128.C39  
Gene No. 44143 Strand +  
Start 519 End 678  
Name OJ990907\_10.0128.C39.o1.gs Method GENSCAN  
Start 519 End 678  
GI none Score .46  
Exons 519..678

Seq. No. 21145 Seq. ID OJ990907\_10.0128.C40  
Gene No. 44144 Strand +  
Start 840 End 1185  
Name OJ990907\_10.0128.C40.o1.gs Method GENSCAN  
Start 840 End 1185  
GI none Score .89  
Exons 840..934, 1079..1185

Seq. No. 21146 Seq. ID OJ990907\_10.0128.C41



Gene No.	44145	Strand	+
Start	666	End	1290
Name	OJ990907_10.0128.C41.o1.tw	Method	TBLASTX:Wheat
Start	657	End	1172
GI	none	Score	140
Exons	657..878, 675..890, 682..891, 695..898, 700..891, 1001..1171, 1005..1172		

Seq. No.	21146	Seq. ID	OJ990907_10.0128.C41
Gene No.	44145	Strand	+
Start	666	End	1290
Name	OJ990907_10.0128.C41.o1.tm	Method	TBLASTX:Maize
Start	659	End	1288
GI	none	Score	127
Exons	659..778, 669..770, 725..772, 856..891, 857..898, 1001..1210, 1002..1196, 1003..1203, 1013..1204, 1271..1288		

Seq. No.	21146	Seq. ID	OJ990907_10.0128.C41
Gene No.	44145	Strand	+
Start	666	End	1290
Name	OJ990907_10.0128.C41.o1.np	Method	AAT/NAP
Start	666	End	1290
GI	6723395	Score	144
Exons	666..892, 1056..1290		
GI Descrip.	(AL132956).hypothetical protein [Arabidopsis thaliana]		

Seq. No.	21146	Seq. ID	OJ990907_10.0128.C41
Gene No.	44145	Strand	+
Start	666	End	1290
Name	OJ990907_10.0128.C41.o1.gs	Method	GENSCAN
Start	683	End	1195
GI	none	Score	.81
Exons	683..891, 1004..1195		

Seq. No.	21146	Seq. ID	OJ990907_10.0128.C41
Gene No.	44145	Strand	+
Start	666	End	1290
Name	OJ990907_10.0128.C41.o1.ts	Method	TBLASTX:Soybean
Start	1002	End	1196
GI	none	Score	198
Exons	1002..1196, 1010..1195		

Seq. No.	21147	Seq. ID	OJ990907_10.0128.C45
Gene No.	44146	Strand	+
Start	8367	End	9926
Name	OJ990907_10.0128.C45.o2.gs	Method	GENSCAN
Start	8367	End	9926
GI	none	Score	1
Exons	8367..8978, 9063..9236, 9342..9926		

Seq. No.	21147	Seq. ID	OJ990907_10.0128.C45
Gene No.	44147	Strand	+
Start	27040	End	29094
Name	OJ990907_10.0128.C45.o4.gp	Method	AAT/GAP
Start	27040	End	29094
GI	none	Score	1169
Exons	27040..27489, 28901..29094		

Seq. No.	21147	Seq. ID	OJ990907_10.0128.C45
Gene No.	44148	Strand	-
Start	1	End	5893
Name	OJ990907_10.0128.C45.o1.gp	Method	AAT/GAP
Start	1	End	1311
GI	uC-osroM202041h08b1	Score	575
Exons	1..130, 396..482, 1189..1311		
GI Descrip.	'4510377/gb AAD21465.1  1.0e-33 (AC007017) putative RNA helicase A [Arabidopsis thaliana]'		

Seq. No.	21147	Seq. ID	OJ990907_10.0128.C45
Gene No.	44148	Strand	-
Start	1	End	5893
Name	OJ990907_10.0128.C45.o1.np	Method	AAT/NAP
Start	1	End	5299
GI	4510377	Score	147
Exons	1..130, 396..482, 1189..1298, 5267..5299		
GI Descrip.	(AC007017) putative ATP-dependent RNA helicase A [Arabidopsis thaliana]		

Seq. No.	21147	Seq. ID	OJ990907_10.0128.C45
Gene No.	44148	Strand	-
Start	1	End	5893
Name	OJ990907_10.0128.C45.o1.gs	Method	GENSCAN
Start	390	End	5893
GI	none	Score	.89
Exons	390..482, 1189..1311, 1411..1490, 1983..2295, 2835..3053, 3641..3852, 3992..4091, 4670..4878, 5358..5463, 5561..5893		

Seq. No.	21147	Seq. ID	OJ990907_10.0128.C45
Gene No.	44149	Strand	-
Start	12295	End	17163
Name	OJ990907_10.0128.C45.o3.gs	Method	GENSCAN
Start	12295	End	16311
GI	none	Score	.9
Exons	12295..12593, 13060..13621, 14882..15316, 15883..16311		

Seq. No.	21147	Seq. ID	OJ990907_10.0128.C45
Gene No.	44149	Strand	-
Start	12295	End	17163
Name	OJ990907_10.0128.C45.o3.np	Method	AAT/NAP
Start	12298	End	17163
GI	5123703	Score	2008
Exons	12298..12593, 13060..13621, 14882..15316, 15883..16266, 17101..17163		
GI Descrip.	(AL079347) invertase-like protein [Arabidopsis thaliana]		

Seq. No.	21147	Seq. ID	OJ990907_10.0128.C45
Gene No.	44150	Strand	-
Start	19890	End	25451
Name	OJ990907_10.0128.C45.o4.gs	Method	GENSCAN
Start	19890	End	25451
GI	none	Score	.69
Exons	19890..19937, 20628..20729, 20967..21294, 21428..21554, 21688..21741, 23146..23173, 23453..23760, 23990..24360, 24453..24528, 25035..25186, 25243..25451		

Seq. No.	21147	Seq. ID	OJ990907_10.0128.C45
Gene No.	44150	Strand	-
Start	19890	End	25451
Name	OJ990907_10.0128.C45.o3.gp	Method	AAT/GAP
Start	22534	End	22942
GI	none	Score	781
Exons	22534..22942		

Seq. No.	21147	Seq. ID	OJ990907_10.0128.C45
Gene No.	44151	Strand	-
Start	27273	End	30168
Name	OJ990907_10.0128.C45.o1.ts	Method	TBLASTX:Soybean
Start	9339	End	9899
GI	none	Score	689
Exons	9339..9899, 9341..9691		

Seq. No.	21147	Seq. ID	OJ990907_10.0128.C45
Gene No.	44151	Strand	-
Start	27273	End	30168
Name	OJ990907_10.0128.C45.o7.tm	Method	TBLASTX:Maize
Start	9738	End	9905
GI	none	Score	194
Exons	9738..9905		

Seq. No.	21147	Seq. ID	OJ990907_10.0128.C45
Gene No.	44151	Strand	-
Start	27273	End	30168
Name	OJ990907_10.0128.C45.o1.tm	Method	TBLASTX:Maize
Start	12290	End	15059
GI	none	Score	288
Exons	12290..12472, 12301..12597, 12302..12598, 13061..13534, 13062..13151, 13233..13535, 13541..13639, 13542..13622, 14882..15049, 14883..15059		

Seq. No.	21147	Seq. ID	OJ990907_10.0128.C45
Gene No.	44151	Strand	-
Start	27273	End	30168
Name	OJ990907_10.0128.C45.o3.tc	Method	TBLASTX:Cress
Start	12304	End	12601
GI	none	Score	157
Exons	12304..12351, 12337..12597, 12338..12490, 12554..12601		

Seq. No.	21147	Seq. ID	OJ990907_10.0128.C45
Gene No.	44151	Strand	-
Start	27273	End	30168
Name	OJ990907_10.0128.C45.o3.ts	Method	TBLASTX:Soybean
Start	12331	End	13345
GI	none	Score	105
Exons	12331..12597, 12347..12601, 13061..13345, 13062..13163, 13236..13331		

Seq. No.	21147	Seq. ID	OJ990907_10.0128.C45
Gene No.	44151	Strand	-
Start	27273	End	30168
Name	OJ990907_10.0128.C45.o1.tc	Method	TBLASTX:Cress
Start	13067	End	13522

GI	none	Score	55
Exons	13067..13114, 13068..13115, 13100..13177, 13190..13522, 13233..13502		
Seq. No.	21147	Seq. ID	OJ990907_10.0128.C45
Gene No.	44151	Strand	-
Start	27273	End	30168
Name	OJ990907_10.0128.C45.o1.tw	Method	TBLASTX:Wheat
Start	13340	End	15026
GI	none	Score	200
Exons	13340..13558, 13341..13541, 13538..13639, 13539..13622, 14882..15025, 14883..15026		
Seq. No.	21147	Seq. ID	OJ990907_10.0128.C45
Gene No.	44151	Strand	-
Start	27273	End	30168
Name	OJ990907_10.0128.C45.o2.ts	Method	TBLASTX:Soybean
Start	13347	End	15212
GI	none	Score	252
Exons	13347..13622, 13349..13621, 13508..13639, 14882..15124, 14883..15113, 15134..15211, 15153..15212		
Seq. No.	21147	Seq. ID	OJ990907_10.0128.C45
Gene No.	44151	Strand	-
Start	27273	End	30168
Name	OJ990907_10.0128.C45.o2.tc	Method	TBLASTX:Cress
Start	14948	End	16212
GI	none	Score	164
Exons	14948..15124, 14976..15125, 15134..15325, 15135..15317, 15251..15319, 15877..16056, 15881..16054, 16150..16212		
Seq. No.	21147	Seq. ID	OJ990907_10.0128.C45
Gene No.	44151	Strand	-
Start	27273	End	30168
Name	OJ990907_10.0128.C45.o3.tw	Method	TBLASTX:Wheat
Start	15029	End	15202
GI	none	Score	129
Exons	15029..15124, 15030..15125, 15134..15202, 15138..15200		
Seq. No.	21147	Seq. ID	OJ990907_10.0128.C45
Gene No.	44151	Strand	-
Start	27273	End	30168
Name	OJ990907_10.0128.C45.o6.tm	Method	TBLASTX:Maize
Start	15062	End	15269
GI	none	Score	83
Exons	15062..15130, 15063..15131, 15120..15269, 15131..15268		
Seq. No.	21147	Seq. ID	OJ990907_10.0128.C45
Gene No.	44151	Strand	-
Start	27273	End	30168
Name	OJ990907_10.0128.C45.o8.ts	Method	TBLASTX:Soybean
Start	15228	End	16030
GI	none	Score	103
Exons	15228..15317, 15242..15325, 15877..16029, 15881..16030		
Seq. No.	21147	Seq. ID	OJ990907_10.0128.C45
Gene No.	44151	Strand	-

Start	27273	End	30168
Name	OJ990907_10.0128.C45.o4.tm	Method	TBLASTX:Maize
Start	15269	End	16251
GI	none	Score	87
Exons	15269..15325, 15269..15325, 15877..16089, 15881..16087, 16102..16188, 16108..16212, 16216..16251		
Seq. No.	21147	Seq. ID	OJ990907_10.0128.C45
Gene No.	44151	Strand	-
Start	27273	End	30168
Name	OJ990907_10.0128.C45.o2.tm	Method	TBLASTX:Maize
Start	22915	End	25482
GI	none	Score	303
Exons	22915..23139, 22916..23152, 22917..23156, 23144..23173, 23145..23192, 23450..23755, 23450..23758, 23458..23763, 23458..23763, 23975..24142, 23977..24357, 23991..24359, 23991..24359, 23992..24360, 24435..24557, 24435..24557, 24436..24558, 24452..24559, 24457..24558, 25212..25334, 25218..25346, 25432..25482		
Seq. No.	21147	Seq. ID	OJ990907_10.0128.C45
Gene No.	44151	Strand	-
Start	27273	End	30168
Name	OJ990907_10.0128.C45.o7.ts	Method	TBLASTX:Soybean
Start	22949	End	23698
GI	none	Score	102
Exons	22949..23173, 22998..23174, 23459..23503, 23505..23666, 23509..23673, 23513..23695, 23513..23698		
Seq. No.	21147	Seq. ID	OJ990907_10.0128.C45
Gene No.	44151	Strand	-
Start	27273	End	30168
Name	OJ990907_10.0128.C45.o5.ts	Method	TBLASTX:Soybean
Start	24180	End	25346
GI	none	Score	160
Exons	24180..24368, 24184..24354, 24452..24559, 24453..24557, 25218..25346, 25225..25266		
Seq. No.	21147	Seq. ID	OJ990907_10.0128.C45
Gene No.	44151	Strand	-
Start	27273	End	30168
Name	OJ990907_10.0128.C45.o3.tm	Method	TBLASTX:Maize
Start	27069	End	29056
GI	none	Score	63
Exons	27069..27122, 27070..27123, 27173..27271, 27273..27485, 27277..27489, 27437..27490, 28903..28989, 29024..29056		
Seq. No.	21147	Seq. ID	OJ990907_10.0128.C45
Gene No.	44151	Strand	-
Start	27273	End	30168
Name	OJ990907_10.0128.C45.o6.ts	Method	TBLASTX:Soybean
Start	27268	End	27485
GI	none	Score	169
Exons	27268..27450, 27270..27449, 27444..27485		
Seq. No.	21147	Seq. ID	OJ990907_10.0128.C45
Gene No.	44151	Strand	-

Start	27273	End	30168
Name	OJ990907_10.0128.C45.o2.tw	Method	TBLASTX:Wheat
Start	27269	End	29092
GI	none	Score	62
Exons	27269..27322, 27270..27308, 27309..27485, 27355..27489, 28903..28998, 29027..29092		
Seq. No.	21147	Seq. ID	OJ990907_10.0128.C45
Gene No.	44151	Strand	-
Start	27273	End	30168
Name	OJ990907_10.0128.C45.o5.gs	Method	GENSCAN
Start	27273	End	30080
GI	none	Score	.64
Exons	27273..27487, 28150..28323, 29155..29200, 29490..30080		
Seq. No.	21147	Seq. ID	OJ990907_10.0128.C45
Gene No.	44151	Strand	-
Start	27273	End	30168
Name	OJ990907_10.0128.C45.o5.tc	Method	TBLASTX:Cress
Start	27273	End	27503
GI	none	Score	40
Exons	27273..27449, 27277..27303, 27376..27456, 27435..27503		
Seq. No.	21147	Seq. ID	OJ990907_10.0128.C45
Gene No.	44151	Strand	-
Start	27273	End	30168
Name	OJ990907_10.0128.C45.o4.np	Method	AAT/NAP
Start	29378	End	30168
GI	4558664	Score	471
Exons	29378..30168		
GI Descrip.	(AC007063) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	21147	Seq. ID	OJ990907_10.0128.C45
Gene No.	44151	Strand	-
Start	27273	End	30168
Name	OJ990907_10.0128.C45.o4.ts	Method	TBLASTX:Soybean
Start	29475	End	30014
GI	none	Score	292
Exons	29475..30014		
Seq. No.	21147	Seq. ID	OJ990907_10.0128.C45
Gene No.	44151	Strand	-
Start	27273	End	30168
Name	OJ990907_10.0128.C45.o5.tm	Method	TBLASTX:Maize
Start	29475	End	30129
GI	none	Score	125
Exons	29475..30125, 29563..30129		
Seq. No.	21147	Seq. ID	OJ990907_10.0128.C45
Gene No.	44151	Strand	-
Start	27273	End	30168
Name	OJ990907_10.0128.C45.o4.tc	Method	TBLASTX:Cress
Start	29499	End	30122
GI	none	Score	151
Exons	29499..30122, 29500..30027		
Seq. No.	21148	Seq. ID	OJ990907_10.0128.C46

Gene No. 44152  
 Start 515  
 Name OJ990907\_10.0128.C46.o1.gs  
 Start 515  
 GI none  
 Exons 515..553, 659..669

Strand +  
 End 669  
 Method GENSCAN  
 End 669  
 Score .49

Seq. No. 21148  
 Gene No. 44153  
 Start 2333  
 Name OJ990907\_10.0128.C46.o1.np  
 Start 2333  
 GI 6633811  
 Exons 2333..2438, 2487..3093, 3124..3511  
 GI Descrip. (AC009519) F1N19.7 [Arabidopsis thaliana]

Seq. ID OJ990907\_10.0128.C46  
 Strand +  
 End 3747  
 Method AAT/NAP  
 End 3511  
 Score 512

Seq. No. 21148  
 Gene No. 44153  
 Start 2333  
 Name OJ990907\_10.0128.C46.o2.gs  
 Start 2333  
 GI none  
 Exons 2333..3508

Seq. ID OJ990907\_10.0128.C46  
 Strand +  
 End 3747  
 Method GENSCAN  
 End 3508  
 Score 1

Seq. No. 21148  
 Gene No. 44153  
 Start 2333  
 Name OJ990907\_10.0128.C46.o1.gp  
 Start 2671  
 GI none  
 Exons 2671..3146

Seq. ID OJ990907\_10.0128.C46  
 Strand +  
 End 3747  
 Method AAT/GAP  
 End 3146  
 Score 894

Seq. No. 21148  
 Gene No. 44153  
 Start 2333  
 Name OJ990907\_10.0128.C46.o1.ts  
 Start 3140  
 GI none  
 Exons 3140..3193, 3197..3313, 3353..3418, 3452..3502

Seq. ID OJ990907\_10.0128.C46  
 Strand +  
 End 3747  
 Method TBLASTX:Soybean  
 End 3502  
 Score 75

Seq. No. 21148  
 Gene No. 44153  
 Start 2333  
 Name OJ990907\_10.0128.C46.o2.gp  
 Start 3279  
 GI 32973\_1.R1084  
 Exons 3279..3747  
 GI Descrip. '4115916 4.0e-10 (AF118222) F3H7.9 gene product [Arabidopsis thaliana] >gi\_4539441\_emb\_CAB40029.1\_ (AL049523) putative protein [Arabidopsis thaliana]'

Seq. ID OJ990907\_10.0128.C46  
 Strand +  
 End 3747  
 Method AAT/GAP  
 End 3747  
 Score 874

Seq. No. 21149  
 Gene No. 44154  
 Start 815  
 Name OJ990907\_10.0128.C47.o1.np  
 Start 815  
 GI 6721519

Seq. ID OJ990907\_10.0128.C47  
 Strand +  
 End 1489  
 Method AAT/NAP  
 End 1489  
 Score 126

Exons 815..1053, 1468..1489  
 GI Descrip. (AP001072) EST AU082116(E4026) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No.	21149	Seq. ID	OJ990907_10.0128.C47
Gene No.	44155	Strand	-
Start	316	End	1341
Name	OJ990907_10.0128.C47.o1.tw	Method	TBLASTX:Wheat
Start	1	End	346
GI	none	Score	61
Exons	1..159, 3..200, 203..346		

Seq. No.	21149	Seq. ID	OJ990907_10.0128.C47
Gene No.	44155	Strand	-
Start	316	End	1341
Name	OJ990907_10.0128.C47.o1.gs	Method	GENSCAN
Start	316	End	1341
GI	none	Score	.86
Exons	316..472, 1208..1341		

Seq. No.	21150	Seq. ID	OJ990907_10.0128.C48
Gene No.	44156	Strand	+
Start	1	End	2689
Name	OJ990907_10.0128.C48.o1.np	Method	AAT/NAP
Start	1	End	2551
GI	4415933	Score	2210
Exons	1..2551		
GI Descrip.	(AC006418) putative cellular apoptosis susceptibility protein [Arabidopsis thaliana]		

Seq. No.	21150	Seq. ID	OJ990907_10.0128.C48
Gene No.	44156	Strand	+
Start	1	End	2689
Name	OJ990907_10.0128.C48.o1.gs	Method	GENSCAN
Start	133	End	2554
GI	none	Score	.86
Exons	133..2554		

Seq. No.	21150	Seq. ID	OJ990907_10.0128.C48
Gene No.	44156	Strand	+
Start	1	End	2689
Name	OJ990907_10.0128.C48.o1.tc	Method	TBLASTX:Cress
Start	224	End	550
GI	none	Score	198
Exons	224..394, 259..366, 422..550, 463..543		

Seq. No.	21150	Seq. ID	OJ990907_10.0128.C48
Gene No.	44156	Strand	+
Start	1	End	2689
Name	OJ990907_10.0128.C48.o1.tm	Method	TBLASTX:Maize
Start	628	End	1304
GI	none	Score	881
Exons	628..1290, 629..1303, 630..1304		

Seq. No.	21150	Seq. ID	OJ990907_10.0128.C48
Gene No.	44156	Strand	+
Start	1	End	2689



Name	OJ990907_10.0128.C48.o1.ts	Method	TBLASTX:Soybean
Start	1331	End	1753
GI	none	Score	122
Exons	1331..1474, 1333..1395, 1457..1696, 1465..1752, 1466..1753		

Seq. No.	21150	Seq. ID	OJ990907_10.0128.C48
Gene No.	44156	Strand	+
Start	1	End	2689
Name	OJ990907_10.0128.C48.o2.tm	Method	TBLASTX:Maize
Start	1513	End	2084
GI	none	Score	777
Exons	1513..2061, 1514..2002, 2001..2084, 2006..2083		

Seq. No.	21150	Seq. ID	OJ990907_10.0128.C48
Gene No.	44156	Strand	+
Start	1	End	2689
Name	OJ990907_10.0128.C48.o3.ts	Method	TBLASTX:Soybean
Start	1753	End	1993
GI	none	Score	205
Exons	1753..1989, 1754..1993		

Seq. No.	21150	Seq. ID	OJ990907_10.0128.C48
Gene No.	44156	Strand	+
Start	1	End	2689
Name	OJ990907_10.0128.C48.o2.tc	Method	TBLASTX:Cress
Start	1873	End	2167
GI	none	Score	276
Exons	1873..2166, 1874..2167		

Seq. No.	21150	Seq. ID	OJ990907_10.0128.C48
Gene No.	44156	Strand	+
Start	1	End	2689
Name	OJ990907_10.0128.C48.o2.ts	Method	TBLASTX:Soybean
Start	2093	End	2467
GI	none	Score	203
Exons	2093..2266, 2093..2260, 2107..2262, 2330..2467, 2332..2463		

Seq. No.	21150	Seq. ID	OJ990907_10.0128.C48
Gene No.	44156	Strand	+
Start	1	End	2689
Name	OJ990907_10.0128.C48.o1.gp	Method	AAT/GAP
Start	2114	End	2689
GI	26330_1.R1084	Score	865
Exons	2114..2567, 2662..2689		
GI Descrip.	'4415933/gb AAD20163  3.0e-33 (AC006418) putative cellular apoptosis susceptibility protein [Arabidopsis thaliana] >gi_4559390_gb_AAD23050.1 AC006526_15 (AC006526) putative cellular apoptosis susceptibility protein [Arabidopsis thaliana]'		

Seq. No.	21150	Seq. ID	OJ990907_10.0128.C48
Gene No.	44156	Strand	+
Start	1	End	2689
Name	OJ990907_10.0128.C48.o3.tm	Method	TBLASTX:Maize
Start	2335	End	2557
GI	none	Score	246
Exons	2335..2556, 2335..2556, 2336..2557		

Seq. No.	21151	Seq. ID	OJ990827_09.0103.C1
Gene No.	44157	Strand	+
Start	1587	End	3217
Name	OJ990827_09.0103.C1.o1.gs	Method	GENSCAN
Start	1587	End	2996
GI	none	Score	.87
Exons	1587..2112, 2127..2197, 2311..2751, 2850..2996		
Seq. No.	21151	Seq. ID	OJ990827_09.0103.C1
Gene No.	44157	Strand	+
Start	1587	End	3217
Name	OJ990827_09.0103.C1.o1.gp	Method	AAT/GAP
Start	2026	End	3217
GI	681_1.R1084	Score	1903
Exons	2026..2197, 2311..2751, 2850..3217		
GI Descrip.	'1076757/pir  S52642 7.0e-66 WSI18 protein - rice >gi_537402_dbj_BAA05537_ (D26536) WSI18 protein induced by water stress [Oryza sativa]'		
Seq. No.	21151	Seq. ID	OJ990827_09.0103.C1
Gene No.	44157	Strand	+
Start	1587	End	3217
Name	OJ990827_09.0103.C1.o1.np	Method	AAT/NAP
Start	2138	End	2993
GI	1076757	Score	991
Exons	2138..2197, 2311..2751, 2850..2993		
GI Descrip.	WSI18 protein - rice gi 537402 dbj BAA05537  (D26536) WSI18 protein induced by water stress [Oryza sativa]		
Seq. No.	21151	Seq. ID	OJ990827_09.0103.C1
Gene No.	44158	Strand	+
Start	6682	End	8488
Name	OJ990827_09.0103.C1.o4.gs	Method	GENSCAN
Start	6682	End	8488
GI	none	Score	.75
Exons	6682..6760, 6905..7055, 7215..7371, 8396..8488		
Seq. No.	21151	Seq. ID	OJ990827_09.0103.C1
Gene No.	44159	Strand	+
Start	9845	End	10343
Name	OJ990827_09.0103.C1.o2.gp	Method	AAT/GAP
Start	9845	End	10343
GI	none	Score	954
Exons	9845..10343		
Seq. No.	21151	Seq. ID	OJ990827_09.0103.C1
Gene No.	44160	Strand	+
Start	10894	End	11510
Name	OJ990827_09.0103.C1.o3.gp	Method	AAT/GAP
Start	10894	End	11510
GI	none	Score	1187
Exons	10894..11510		
Seq. No.	21151	Seq. ID	OJ990827_09.0103.C1
Gene No.	44161	Strand	+
Start	12554	End	13074

Name	OJ990827_09.0103.C1.o4.gp	Method	AAT/GAP
Start	12554	End	12884
GI	LIB3434-044-P1-K1-C9	Score	610
Exons	12554..12884		
GI Descrip.	'6069643/dbj AP000616.1 AP000616 1.0e-152 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	21151	Seq. ID	OJ990827_09.0103.C1
Gene No.	44161	Strand	+
Start	12554	End	13074
Name	OJ990827_09.0103.C1.o3.np	Method	AAT/NAP
Start	12716	End	13074
GI	5103838	Score	86
Exons	12716..12740, 12886..13074		
GI Descrip.	(AC007591) ESTs gb H37295 and gb R64895 come from this gene. [Arabidopsis thaliana]		

Seq. No.	21151	Seq. ID	OJ990827_09.0103.C1
Gene No.	44162	Strand	-
Start	3691	End	4365
Name	OJ990827_09.0103.C1.o2.gs	Method	GENSCAN
Start	3691	End	4365
GI	none	Score	.85
Exons	3691..4365		

Seq. No.	21151	Seq. ID	OJ990827_09.0103.C1
Gene No.	44162	Strand	-
Start	3691	End	4365
Name	OJ990827_09.0103.C1.o2.np	Method	AAT/NAP
Start	3691	End	4341
GI	6689034	Score	499
Exons	3691..4341		
GI Descrip.	(AJ250832) germin-like protein [Pisum sativum]		

Seq. No.	21151	Seq. ID	OJ990827_09.0103.C1
Gene No.	44163	Strand	-
Start	5051	End	5904
Name	OJ990827_09.0103.C1.o3.gs	Method	GENSCAN
Start	5051	End	5904
GI	none	Score	.81
Exons	5051..5198, 5389..5587, 5730..5904		

Seq. No.	21151	Seq. ID	OJ990827_09.0103.C1
Gene No.	44164	Strand	-
Start	15044	End	17321
Name	OJ990827_09.0103.C1.o1.tm	Method	TBLASTX:Maize
Start	3587	End	4278
GI	none	Score	321
Exons	3587..3607, 3700..4197, 3701..4270, 4192..4278, 4201..4278		

Seq. No.	21151	Seq. ID	OJ990827_09.0103.C1
Gene No.	44164	Strand	-
Start	15044	End	17321
Name	OJ990827_09.0103.C1.o1.tc	Method	TBLASTX:Cress
Start	3700	End	4278
GI	none	Score	66
Exons	3700..3873, 3701..3856, 3871..4278, 3878..4267		

Seq. No. 21151  
 Gene No. 44164  
 Start 15044  
 Name OJ990827\_09.0103.C1.o2.ts  
 Start 3700  
 GI none  
 Exons 3700..4278, 3701..4270

Seq. ID OJ990827\_09.0103.C1  
 Strand -  
 End 17321  
 Method TBLASTX:Soybean  
 End 4278  
 Score 267

Seq. No. 21151  
 Gene No. 44164  
 Start 15044  
 Name OJ990827\_09.0103.C1.o1.tw  
 Start 3718  
 GI none  
 Exons 3718..4116, 3719..4123

Seq. ID OJ990827\_09.0103.C1  
 Strand -  
 End 17321  
 Method TBLASTX:Wheat  
 End 4123  
 Score 264

Seq. No. 21151  
 Gene No. 44164  
 Start 15044  
 Name OJ990827\_09.0103.C1.o4.np  
 Start 15044  
 GI 3080407  
 Exons 15044..15241, 15763..16312, 16430..16904, 17250..17321  
 GI Descrip. (AL022604) hypothetical protein (fragment) [Arabidopsis thaliana]

Seq. ID OJ990827\_09.0103.C1  
 Strand -  
 End 17321  
 Method AAT/NAP  
 End 17321  
 Score 806

Seq. No. 21151  
 Gene No. 44164  
 Start 15044  
 Name OJ990827\_09.0103.C1.o2.tm  
 Start 15887  
 GI none  
 Exons 15887..16078, 15892..16038, 15893..16078, 16067..16309, 16091..16309

Seq. ID OJ990827\_09.0103.C1  
 Strand -  
 End 17321  
 Method TBLASTX:Maize  
 End 16309  
 Score 128

Seq. No. 21151  
 Gene No. 44164  
 Start 15044  
 Name OJ990827\_09.0103.C1.o1.ts  
 Start 16169  
 GI none  
 Exons 16169..16309, 16169..16312, 16176..16313, 16427..16570, 16428..16460, 16430..16552, 16506..16571, 16556..16870, 16569..16868

Seq. ID OJ990827\_09.0103.C1  
 Strand -  
 End 17321  
 Method TBLASTX:Soybean  
 End 16870  
 Score 55

Seq. No. 21152  
 Gene No. 44165  
 Start 93  
 Name OJ990827\_09.0103.C2.o1.gs  
 Start 93  
 GI none  
 Exons 93..388

Seq. ID OJ990827\_09.0103.C2  
 Strand -  
 End 388  
 Method GENSCAN  
 End 388  
 Score .66

Seq. No. 21153  
 Gene No. 44166  
 Start 1

Seq. ID OJ990827\_09.0103.C3  
 Strand -  
 End 509

Name	OJ990827_09.0103.C3.o1.np	Method	AAT/NAP
Start	1	End	474
GI	4680190	Score	269
Exons	1..220, 392..474		
GI Descrip.	(AF111710) putative dnaJ-like protein [Oryza sativa subsp. indica]		

  

Seq. No.	21153	Seq. ID	OJ990827_09.0103.C3
Gene No.	44166	Strand	-
Start	1	End	509
Name	OJ990827_09.0103.C3.o1.tm	Method	TBLASTX:Maize
Start	21	End	485
GI	none	Score	185
Exons	21..71, 22..207, 22..186, 108..200, 391..477, 396..485, 411..476		

  

Seq. No.	21153	Seq. ID	OJ990827_09.0103.C3
Gene No.	44166	Strand	-
Start	1	End	509
Name	OJ990827_09.0103.C3.o1.gs	Method	GENSCAN
Start	22	End	509
GI	none	Score	.58
Exons	22..184, 392..509		

  

Seq. No.	21154	Seq. ID	OJ990827_09.0103.C5
Gene No.	44167	Strand	+
Start	1026	End	1697
Name	OJ990827_09.0103.C5.o1.gs	Method	GENSCAN
Start	1026	End	1697
GI	none	Score	.74
Exons	1026..1697		

  

Seq. No.	21154	Seq. ID	OJ990827_09.0103.C5
Gene No.	44168	Strand	+
Start	5259	End	9109
Name	OJ990827_09.0103.C5.o2.gs	Method	GENSCAN
Start	5259	End	9109
GI	none	Score	.92
Exons	5259..5332, 5444..5523, 5630..5791, 6609..6714, 6765..7353, 7450..7547, 7637..7882, 7985..8099, 8210..8423, 8520..9109		

  

Seq. No.	21154	Seq. ID	OJ990827_09.0103.C5
Gene No.	44168	Strand	+
Start	5259	End	9109
Name	OJ990827_09.0103.C5.o1.np	Method	AAT/NAP
Start	5630	End	9097
GI	4218991	Score	1289
Exons	5630..5791, 6609..6714, 6804..7329, 7435..7547, 7637..7882, 7985..8099, 8210..8423, 8520..9097		
GI Descrip.	(AF098632) subtilisin-like protease [Arabidopsis thaliana]		

  

Seq. No.	21154	Seq. ID	OJ990827_09.0103.C5
Gene No.	44169	Strand	+
Start	10841	End	12036
Name	OJ990827_09.0103.C5.o2.np	Method	AAT/NAP
Start	10841	End	12036
GI	6553921	Score	308
Exons	10841..10957, 11046..11130, 11651..11792, 11916..12036		

GI Descrip. (AC012329) hypothetical protein [Arabidopsis thaliana]

Seq. No.	21154	Seq. ID	OJ990827_09.0103.C5
Gene No.	44169	Strand	+
Start	10841	End	12036
Name	OJ990827_09.0103.C5.o3.gs	Method	GENSCAN
Start	10841	End	12000
GI	none	Score	.6
Exons	10841..10957, 11046..11130, 11843..12000		

Seq. No.	21154	Seq. ID	OJ990827_09.0103.C5
Gene No.	44170	Strand	-
Start	294	End	720
Name	OJ990827_09.0103.C5.o1.gp	Method	AAT/GAP
Start	294	End	720
GI	4878407	Score	648
Exons	294..720		
GI Descrip.	6069643/dbj AP000616.1 AP000616 1.0e-152 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12		

Seq. No.	21154	Seq. ID	OJ990827_09.0103.C5
Gene No.	44171	Strand	
Start	5635	End	9093
Name	OJ990827_09.0103.C5.o1.tc	Method	TBLASTX:Cress
Start	5635	End	9037
GI	none	Score	67
Exons	5635..5724, 6608..6649, 6653..6700, 6868..7326, 6897..7091, 7155..7325, 7652..7834, 7653..7835, 7986..8099, 8021..8098, 8200..8421, 8201..8422, 8557..8679, 8561..8692, 8777..8803, 8870..9037		

Seq. No.	21154	Seq. ID	OJ990827_09.0103.C5
Gene No.	44171	Strand	
Start	5635	End	9093
Name	OJ990827_09.0103.C5.o2.ts	Method	TBLASTX:Soybean
Start	6607	End	7131
GI	none	Score	54
Exons	6607..6645, 6608..6646, 6653..6715, 6655..6720, 6805..6840, 6895..7044, 6897..7010, 6976..7131		

Seq. No.	21154	Seq. ID	OJ990827_09.0103.C5
Gene No.	44171	Strand	
Start	5635	End	9093
Name	OJ990827_09.0103.C5.o1.tw	Method	TBLASTX:Wheat
Start	6884	End	7326
GI	none	Score	34
Exons	6884..6925, 7048..7131, 7050..7091, 7114..7326, 7155..7325		

Seq. No.	21154	Seq. ID	OJ990827_09.0103.C5
Gene No.	44171	Strand	
Start	5635	End	9093
Name	OJ990827_09.0103.C5.o1.tm	Method	TBLASTX:Maize
Start	7051	End	9037
GI	none	Score	235
Exons	7051..7287, 7053..7286, 7279..7326, 7286..7309, 7653..7868, 7971..8099, 8021..8098, 8197..8421, 8201..8422, 8284..8424, 8393..8425, 8554..8691, 8561..8677, 8762..8800, 8812..8916,		

8813..8890, 8957..9037

Seq. No.	21154	Seq. ID	OJ990827_09.0103.C5
Gene No.	44171	Strand	
Start	5635	End	9093
Name	OJ990827_09.0103.C5.ol.ts	Method	TBLASTX:Soybean
Start	7132	End	9093
GI	none	Score	192
Exons	7132..7326, 7155..7325, 7655..7825, 7656..7880, 7977..8099, 8201..8320, 8320..8421, 8321..8422, 8516..8683, 8545..8676, 8771..8794, 8818..8922, 8819..8971, 8912..8971, 9011..9037, 9056..9088, 9061..9093		

Seq. No.	21155	Seq. ID	OJ990827_09.0103.C6
Gene No.	44172	Strand	+
Start	1	End	12757
Name	OJ990827_09.0103.C6.ol.np	Method	AAT/NAP
Start	1	End	7265
GI	6553921	Score	761
Exons	1..123, 304..375, 526..622, 2073..2306, 2529..2610, 4805..4981, 5532..5624, 5704..5769, 5884..5930, 6057..6740, 6884..7265		
GI Descrip.	(AC012329) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	21155	Seq. ID	OJ990827_09.0103.C6
Gene No.	44172	Strand	+
Start	1	End	12757
Name	OJ990827_09.0103.C6.ol.gs	Method	GENSCAN
Start	306	End	12545
GI	none	Score	.71
Exons	306..389, 519..622, 1414..1675, 1870..2306, 2529..2610, 3459..3567, 5884..5930, 6013..6737, 6884..7158, 7624..7687, 7792..7917, 7939..8011, 8142..8229, 8928..9078, 9286..9448, 9586..9715, 9907..10065, 10186..10355, 10481..10561, 10595..10602, 11127..11349, 11383..11427, 11488..12237, 12315..12545		

Seq. No.	21155	Seq. ID	OJ990827_09.0103.C6
Gene No.	44172	Strand	+
Start	1	End	12757
Name	OJ990827_09.0103.C6.o2.np	Method	AAT/NAP
Start	4431	End	10561
GI	4680190	Score	840
Exons	4431..4450, 7907..8011, 8142..8201, 8996..9078, 9250..9448, 9586..9715, 9907..9978, 10186..10355, 10481..10561		
GI Descrip.	(AF111710) putative dnaJ-like protein [Oryza sativa subsp. indica]		

Seq. No.	21155	Seq. ID	OJ990827_09.0103.C6
Gene No.	44172	Strand	+
Start	1	End	12757
Name	OJ990827_09.0103.C6.ol.gp	Method	AAT/GAP
Start	6932	End	7283
GI	LIB3434-056-P1-K1-H9	Score	681
Exons	6932..7283		
GI Descrip.	'5042437/gb AC007789.1 AC007789 1.0e-34 Oryza sativa BAC T49B20 genomic sequence, complete sequence'		

Seq. No.	21155	Seq. ID	OJ990827_09.0103.C6
Gene No.	44172	Strand	+
Start	1	End	12757
Name	OJ990827_09.0103.C6.o2.gp	Method	AAT/GAP
Start	11697	End	12757
GI	304_1.R1084	Score	1884
Exons	11697..12237, 12315..12757		
GI Descrip.	'231984/sp P30287 DH25_ORYSA 1.0e-64 DEHYDRIN RAB25 >gi_100709_pir_S19132_rab25 protein - rice >gi_20320_emb_CAA40604_ (X57327) rab25 product [Oryza sativa]'		

Seq. No.	21155	Seq. ID	OJ990827_09.0103.C6
Gene No.	44172	Strand	+
Start	1	End	12757
Name	OJ990827_09.0103.C6.o3.np	Method	AAT/NAP
Start	11782	End	12542
GI	231984	Score	1152
Exons	11782..12237, 12315..12542		
GI Descrip.	DEHYDRIN RAB25 gi 100709 pir  S19132 rab25 protein - rice gi 20320 emb CAA40604  (X57327) rab25 product [Oryza sativa]		

Seq. No.	21155	Seq. ID	OJ990827_09.0103.C6
Gene No.	44173	Strand	+
Start	12926	End	15916
Name	OJ990827_09.0103.C6.o1.tm	Method	TBLASTX:Maize
Start	1412	End	2613
GI	none	Score	89
Exons	1412..1522, 1866..2306, 1903..2304, 2527..2613, 2533..2610		

Seq. No.	21155	Seq. ID	OJ990827_09.0103.C6
Gene No.	44173	Strand	+
Start	12926	End	15916
Name	OJ990827_09.0103.C6.o4.tm	Method	TBLASTX:Maize
Start	4813	End	5113
GI	none	Score	177
Exons	4813..4983, 4814..4984, 4814..4984, 5047..5112, 5051..5113		

Seq. No.	21155	Seq. ID	OJ990827_09.0103.C6
Gene No.	44173	Strand	+
Start	12926	End	15916
Name	OJ990827_09.0103.C6.o6.tm	Method	TBLASTX:Maize
Start	5562	End	6090
GI	none	Score	64
Exons	5562..5630, 5685..5771, 5691..5771, 5692..5772, 5883..5930, 5884..5931, 5888..5935, 6054..6089, 6055..6090, 6057..6089		

Seq. No.	21155	Seq. ID	OJ990827_09.0103.C6
Gene No.	44173	Strand	+
Start	12926	End	15916
Name	OJ990827_09.0103.C6.o5.tm	Method	TBLASTX:Maize
Start	6267	End	6480
GI	none	Score	146
Exons	6267..6377, 6271..6387, 6385..6480, 6393..6479		

Seq. No.	21155	Seq. ID	OJ990827_09.0103.C6
Gene No.	44173	Strand	+
Start	12926	End	15916





Seq. No.	21156	Seq. ID	OJ990827_09.0103.C7
Gene No.	44174	Strand	+
Start	1551	End	2710
Name	OJ990827_09.0103.C7.o1.gs	Method	GENSCAN
Start	1551	End	2710
GI	none	Score	.58
Exons	1551..1704, 2565..2710		

Seq. No.	21156	Seq. ID	OJ990827_09.0103.C7
Gene No.	44175	Strand	-
Start	3162	End	4368
Name	OJ990827_09.0103.C7.o2.tm	Method	TBLASTX:Maize
Start	1378	End	1860
GI	none	Score	168
Exons	1378..1554, 1392..1544, 1648..1860		

Seq. No.	21156	Seq. ID	OJ990827_09.0103.C7
Gene No.	44175	Strand	-
Start	3162	End	4368
Name	OJ990827_09.0103.C7.o2.gs	Method	GENSCAN
Start	3162	End	4291
GI	none	Score	.96
Exons	3162..3795, 3917..4046, 4147..4291		

Seq. No.	21156	Seq. ID	OJ990827_09.0103.C7
Gene No.	44175	Strand	-
Start	3162	End	4368
Name	OJ990827_09.0103.C7.o1.np	Method	AAT/NAP
Start	3198	End	4291
GI	421980	Score	739
Exons	3198..3795, 3917..4046, 4150..4291		
GI Descrip.	transforming protein (myb3) - barley gi 19059 emb CAA50223  (X70878) MybHv33 [Hordeum vulgare]		

Seq. No.	21156	Seq. ID	OJ990827_09.0103.C7
Gene No.	44175	Strand	-
Start	3162	End	4368
Name	OJ990827_09.0103.C7.o1.tm	Method	TBLASTX:Maize
Start	3687	End	4344
GI	none	Score	127
Exons	3687..3806, 3717..3797, 3718..3798, 3856..4047, 3902..4054, 3983..4048, 4142..4297, 4148..4300, 4149..4301, 4150..4344, 4219..4314		

Seq. No.	21156	Seq. ID	OJ990827_09.0103.C7
Gene No.	44175	Strand	-
Start	3162	End	4368
Name	OJ990827_09.0103.C7.o1.ts	Method	TBLASTX:Soybean
Start	3708	End	4261
GI	none	Score	91
Exons	3708..3797, 3709..3798, 3856..4047, 3899..4048, 4146..4250, 4148..4261		

Seq. No.	21156	Seq. ID	OJ990827_09.0103.C7
Gene No.	44175	Strand	-
Start	3162	End	4368
Name	OJ990827_09.0103.C7.o1.tc	Method	TBLASTX:Cress

Start	3711	End	4258
GI	none	Score	108
Exons	3711..3770, 3759..3797, 3901..4047, 3902..4048, 4146..4256, 4148..4258		

Seq. No.	21156	Seq. ID	OJ990827_09.0103.C7
Gene No.	44175	Strand	-
Start	3162	End	4368
Name	OJ990827_09.0103.C7.o1.gp	Method	AAT/GAP
Start	3737	End	4368
GI	65698_1.R1084	Score	735
Exons	3737..3795, 3917..4046, 4150..4368		
GI Descrip.	'421980/pir  S35419 4.0e-43 transforming protein (myb3) - barley >gi_19059_emb_CAA50223_ (X70878) MybHv33 [Hordeum vulgare]'		

Seq. No.	21156	Seq. ID	OJ990827_09.0103.C7
Gene No.	44175	Strand	-
Start	3162	End	4368
Name	OJ990827_09.0103.C7.o1.tw	Method	TBLASTX:Wheat
Start	3913	End	4327
GI	none	Score	108
Exons	3913..4047, 3914..4048, 3995..4051, 4148..4249, 4157..4234, 4274..4327		

Seq. No.	21157	Seq. ID	OJ990827_09.0103.C8
Gene No.	44176	Strand	+
Start	1	End	677
Name	OJ990827_09.0103.C8.o1.np	Method	AAT/NAP
Start	1	End	677
GI	5852093	Score	54
Exons	1..66, 588..677		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	21157	Seq. ID	OJ990827_09.0103.C8
Gene No.	44176	Strand	+
Start	1	End	677
Name	OJ990827_09.0103.C8.o1.gp	Method	AAT/GAP
Start	89	End	203
GI	5004566	Score	141
Exons	89..203		
GI Descrip.	5042437/gb AC007789.1 AC007789 1.0e-34 Oryza sativa BAC T49B20 genomic sequence, complete sequence		

Seq. No.	21157	Seq. ID	OJ990827_09.0103.C8
Gene No.	44177	Strand	+
Start	7010	End	7405
Name	OJ990827_09.0103.C8.o2.gs	Method	GENSCAN
Start	7010	End	7405
GI	none	Score	.94
Exons	7010..7405		

Seq. No.	21157	Seq. ID	OJ990827_09.0103.C8
Gene No.	44178	Strand	+
Start	8817	End	11960
Name	OJ990827_09.0103.C8.o4.gs	Method	GENSCAN
Start	8817	End	11960
GI	none	Score	.53

Exons 8817..8880, 9072..9306, 9308..9599, 10143..10219, 10402..10567, 10749..10847, 11026..11223, 11307..11359, 11873..11960

Seq. No.	21157	Seq. ID	OJ990827_09.0103.C8
Gene No.	44179	Strand	+
Start	12787	End	17412
Name	OJ990827_09.0103.C8.o5.gs	Method	GENSCAN
Start	12787	End	17412
GI	none	Score	.65
Exons	12787..13199, 13275..13632, 14696..14769, 14884..15028, 15262..15450, 17248..17412		

Seq. No.	21157	Seq. ID	OJ990827_09.0103.C8
Gene No.	44180	Strand	+
Start	18418	End	21851
Name	OJ990827_09.0103.C8.o3.gp	Method	AAT/GAP
Start	18312	End	21851
GI	185_1.R1084	Score	1715
Exons	18312..18561, 20168..20308, 20408..20492, 20735..20851, 20944..21032, 21277..21327, 21433..21528, 21601..21645, 21768..21851		

GI Descrip. '2073375/dbj|BAA19856| 0.0e+00 (D85317) farnesyl pyrophosphate synthase [Oryza sativa] >gi\_4063829\_dbj\_BAA36276\_ (AB021747) farnesyl diphosphate synthase [Oryza sativa]'

Seq. No.	21157	Seq. ID	OJ990827_09.0103.C8
Gene No.	44180	Strand	+
Start	18418	End	21851
Name	OJ990827_09.0103.C8.o3.np	Method	AAT/NAP
Start	18418	End	21851
GI	2073375	Score	1208
Exons	18418..18561, 20168..20308, 20408..20493, 20735..20851, 20944..21032, 21277..21327, 21433..21528, 21601..21645, 21768..21851		

GI Descrip. (D85317) farnesyl pyrophosphate synthase [Oryza sativa] gi\_4063829|dbj|BAA36276| (AB021747) farnesyl diphosphate synthase [Oryza sativa]

Seq. No.	21157	Seq. ID	OJ990827_09.0103.C8
Gene No.	44180	Strand	+
Start	18418	End	21851
Name	OJ990827_09.0103.C8.o6.gs	Method	GENSCAN
Start	18418	End	21032
GI	none	Score	.78
Exons	18418..18561, 20168..20308, 20735..20851, 20944..21032		

Seq. No.	21157	Seq. ID	OJ990827_09.0103.C8
Gene No.	44181	Strand	-
Start	6969	End	7426
Name	OJ990827_09.0103.C8.o2.gp	Method	AAT/GAP
Start	6969	End	7426
GI	none	Score	848
Exons	6969..7426		

Seq. No.	21157	Seq. ID	OJ990827_09.0103.C8
Gene No.	44182	Strand	-
Start	7604	End	9635

Name	OJ990827_09.0103.C8.o3.gs	Method	GENSCAN
Start	7604	End	8134
GI	none	Score	.63
Exons	7604..7727, 7749..8134		
Seq. No.	21157	Seq. ID	OJ990827_09.0103.C8
Gene No.	44182	Strand	-
Start	7604	End	9635
Name	OJ990827_09.0103.C8.o1.tc	Method	TBLASTX:Cress
Start	7640	End	7942
GI	none	Score	68
Exons	7640..7693, 7719..7820, 7735..7821, 7806..7940, 7814..7942		
Seq. No.	21157	Seq. ID	OJ990827_09.0103.C8
Gene No.	44182	Strand	-
Start	7604	End	9635
Name	OJ990827_09.0103.C8.o1.tm	Method	TBLASTX:Maize
Start	7640	End	8024
GI	none	Score	70
Exons	7640..7693, 7719..7820, 7732..7821, 7806..8024, 7814..8020		
Seq. No.	21157	Seq. ID	OJ990827_09.0103.C8
Gene No.	44182	Strand	-
Start	7604	End	9635
Name	OJ990827_09.0103.C8.o2.tw	Method	TBLASTX:Wheat
Start	7646	End	7883
GI	none	Score	73
Exons	7646..7693, 7719..7820, 7806..7883, 7814..7882		
Seq. No.	21157	Seq. ID	OJ990827_09.0103.C8
Gene No.	44182	Strand	-
Start	7604	End	9635
Name	OJ990827_09.0103.C8.o2.np	Method	AAT/NAP
Start	7710	End	9635
GI	3643598	Score	358
Exons	7710..8168, 9614..9635		
GI Descrip.	(AC005395) putative poly(A) polymerase [Arabidopsis thaliana]		
Seq. No.	21157	Seq. ID	OJ990827_09.0103.C8
Gene No.	44182	Strand	-
Start	7604	End	9635
Name	OJ990827_09.0103.C8.o1.ts	Method	TBLASTX:Soybean
Start	7719	End	8140
GI	none	Score	60
Exons	7719..7820, 7743..7820, 7806..8024, 7814..8020, 8084..8140		
Seq. No.	21157	Seq. ID	OJ990827_09.0103.C8
Gene No.	44183	Strand	-
Start	9653	End	10019
Name	OJ990827_09.0103.C8.o3.tm	Method	TBLASTX:Maize
Start	9653	End	10019
GI	none	Score	165
Exons	9653..9883, 9676..9888, 9677..9877, 9880..9936, 9971..10018, 9972..10019		
Seq. No.	21157	Seq. ID	OJ990827_09.0103.C8
Gene No.	44184	Strand	-

Start	12816	End	14362
Name	OJ990827_09.0103.C8.o1.tw	Method	TBLASTX:Wheat
Start	12816	End	13191
GI	none	Score	498
Exons	12816..13148, 12817..13149, 13161..13190, 13162..13191		

Seq. No.	21157	Seq. ID	OJ990827_09.0103.C8
Gene No.	44184	Strand	
Start	12816	End	14362
Name	OJ990827_09.0103.C8.o2.ts	Method	TBLASTX:Soybean
Start	12835	End	13110
GI	none	Score	270
Exons	12835..13110, 12861..13100		

Seq. No.	21157	Seq. ID	OJ990827_09.0103.C8
Gene No.	44184	Strand	
Start	12816	End	14362
Name	OJ990827_09.0103.C8.o4.tm	Method	TBLASTX:Maize
Start	13051	End	14362
GI	none	Score	85
Exons	13051..13128, 13240..13371, 14224..14358, 14228..14362		

Seq. No.	21157	Seq. ID	OJ990827_09.0103.C8
Gene No.	44184	Strand	
Start	12816	End	14362
Name	OJ990827_09.0103.C8.o6.ts	Method	TBLASTX:Soybean
Start	13278	End	13520
GI	none	Score	209
Exons	13278..13520, 13282..13449		

Seq. No.	21157	Seq. ID	OJ990827_09.0103.C8
Gene No.	44184	Strand	
Start	12816	End	14362
Name	OJ990827_09.0103.C8.o4.tc	Method	TBLASTX:Cress
Start	14224	End	14362
GI	none	Score	234
Exons	14224..14358, 14225..14362		

Seq. No.	21157	Seq. ID	OJ990827_09.0103.C8
Gene No.	44184	Strand	
Start	12816	End	14362
Name	OJ990827_09.0103.C8.o4.ts	Method	TBLASTX:Soybean
Start	14224	End	14362
GI	none	Score	234
Exons	14224..14355, 14225..14362		

Seq. No.	21157	Seq. ID	OJ990827_09.0103.C8
Gene No.	44185	Strand	
Start	18463	End	21851
Name	OJ990827_09.0103.C8.o3.tc	Method	TBLASTX:Cress
Start	18463	End	21033
GI	none	Score	109
Exons	18463..18567, 20161..20310, 20162..20311, 20164..20328, 20392..20430, 20408..20431, 20419..20487, 20427..20486, 20733..20852, 20735..20854, 20928..21020, 20932..21033		

Seq. No.	21157	Seq. ID	OJ990827_09.0103.C8
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Gene No.	44185	Strand	
Start	18463	End	21851
Name	OJ990827_09.0103.C8.o3.ts	Method	TBLASTX:Soybean
Start	18463	End	21039
GI	none	Score	114
Exons	18463..18567, 18472..18564, 20161..20310, 20162..20311, 20408..20431, 20419..20487, 20419..20487, 20430..20492, 20721..20852, 20727..20852, 20734..20853, 20735..20854, 20928..21038, 20931..20969, 20932..21039		

Seq. No.	21157	Seq. ID	OJ990827_09.0103.C8
Gene No.	44185	Strand	
Start	18463	End	21851
Name	OJ990827_09.0103.C8.o2.tm	Method	TBLASTX:Maize
Start	20279	End	21851
GI	none	Score	52
Exons	20279..20311, 20279..20308, 20413..20487, 20415..20486, 20419..20487, 20727..20852, 20727..20852, 20734..20853, 20735..20854, 20928..21032, 20932..21033, 20977..21036, 21282..21329, 21283..21348, 21283..21345, 21432..21524, 21433..21528, 21433..21528, 21598..21645, 21599..21640, 21753..21851, 21766..21849, 21767..21850		

Seq. No.	21157	Seq. ID	OJ990827_09.0103.C8
Gene No.	44185	Strand	
Start	18463	End	21851
Name	OJ990827_09.0103.C8.o2.tc	Method	TBLASTX:Cress
Start	21279	End	21851
GI	none	Score	44
Exons	21279..21323, 21279..21329, 21280..21348, 21432..21524, 21433..21528, 21434..21553, 21598..21645, 21752..21835, 21753..21851		

Seq. No.	21157	Seq. ID	OJ990827_09.0103.C8
Gene No.	44185	Strand	
Start	18463	End	21851
Name	OJ990827_09.0103.C8.o5.ts	Method	TBLASTX:Soybean
Start	21282	End	21645
GI	none	Score	91
Exons	21282..21329, 21283..21348, 21432..21524, 21433..21528, 21433..21528, 21596..21631, 21598..21645		

Seq. No.	21158	Seq. ID	OJ990827_09.0103.C9
Gene No.	44186	Strand	+
Start	2002	End	2262
Name	OJ990827_09.0103.C9.o1.gp	Method	AAT/GAP
Start	2002	End	2262
GI	427610	Score	401
Exons	2002..2262		
GI Descrip.	5852172/emb CAB55410.1  4.0e-11 (AL117265) zhb0002.1 [Oryza sativa]		

Seq. No.	21158	Seq. ID	OJ990827_09.0103.C9
Gene No.	44187	Strand	+
Start	2881	End	7192
Name	OJ990827_09.0103.C9.o2.gp	Method	AAT/GAP
Start	2881	End	4031

GI 16878\_1.R1084 Score 1431  
 Exons 2881..3234, 3336..3485, 3573..3635, 3728..3904, 3984..4031  
 GI Descrip. '2462748 4.0e-91 (AC002292) putative Clathrin Coat Assembly protein [Arabidopsis thaliana]'

Seq. No. 21158 Seq. ID OJ990827\_09.0103.C9  
 Gene No. 44187 Strand +  
 Start 2881 End 7192  
 Name OJ990827\_09.0103.C9.o2.gs Method GENSCAN  
 Start 3106 End 7192  
 GI none Score .8  
 Exons 3106..3234, 3336..3485, 3573..3635, 3728..3904, 3984..4087, 5330..5437, 5524..5620, 5728..5825, 5906..6047, 6129..6251, 6349..6421, 6474..6636, 7171..7192

Seq. No. 21158 Seq. ID OJ990827\_09.0103.C9  
 Gene No. 44187 Strand +  
 Start 2881 End 7192  
 Name OJ990827\_09.0103.C9.o3.np Method AAT/NAP  
 Start 3106 End 6444  
 GI 2462748 Score 1712  
 Exons 3106..3234, 3336..3485, 3573..3635, 3728..3904, 3984..4087, 5330..5437, 5524..5620, 5728..5825, 5906..6047, 6129..6251, 6349..6444  
 GI Descrip. (AC002292) putative Clathrin Coat Assembly protein [Arabidopsis thaliana]

Seq. No. 21158 Seq. ID OJ990827\_09.0103.C9  
 Gene No. 44187 Strand +  
 Start 2881 End 7192  
 Name OJ990827\_09.0103.C9.o3.gp Method AAT/GAP  
 Start 5565 End 6874  
 GI 17471\_1.R1084 Score 1679  
 Exons 5565..5620, 5728..5825, 5906..6047, 6129..6251, 6349..6874  
 GI Descrip. '2462748 5.0e-77 (AC002292) putative Clathrin Coat Assembly protein [Arabidopsis thaliana]'

Seq. No. 21158 Seq. ID OJ990827\_09.0103.C9  
 Gene No. 44188 Strand -  
 Start 2081 End 6741  
 Name OJ990827\_09.0103.C9.o1.gs Method GENSCAN  
 Start 2081 End 3015  
 GI none Score .82  
 Exons 2081..2239, 2866..3015

Seq. No. 21158 Seq. ID OJ990827\_09.0103.C9  
 Gene No. 44188 Strand -  
 Start 2081 End 6741  
 Name OJ990827\_09.0103.C9.o1.np Method AAT/NAP  
 Start 2111 End 5303  
 GI 5852172 Score 131  
 Exons 2111..2188, 2316..2381, 5109..5303  
 GI Descrip. (AL117265) zhb0002.1 [Oryza sativa]

Seq. No. 21158 Seq. ID OJ990827\_09.0103.C9  
 Gene No. 44188 Strand -  
 Start 2081 End 6741



Name	OJ990827_09.0103.C9.o2.np	Method	AAT/NAP
Start	2111	End	2381
GI	5852172	Score	130
Exons	2111..2188, 2316..2381		
GI Descrip.	(AL117265) zhb0002.1 [Oryza sativa]		

Seq. No.	21158	Seq. ID	OJ990827_09.0103.C9
Gene No.	44188	Strand	-
Start	2081	End	6741
Name	OJ990827_09.0103.C9.o2.tm	Method	TBLASTX:Maize
Start	3078	End	3398
GI	none	Score	219
Exons	3078..3233, 3091..3234, 3324..3398, 3335..3397		

Seq. No.	21158	Seq. ID	OJ990827_09.0103.C9
Gene No.	44188	Strand	-
Start	2081	End	6741
Name	OJ990827_09.0103.C9.o2.ts	Method	TBLASTX:Soybean
Start	3091	End	3488
GI	none	Score	202
Exons	3091..3234, 3102..3146, 3198..3233, 3324..3374, 3371..3487, 3372..3488		

Seq. No.	21158	Seq. ID	OJ990827_09.0103.C9
Gene No.	44188	Strand	-
Start	2081	End	6741
Name	OJ990827_09.0103.C9.o2.tc	Method	TBLASTX:Cress
Start	3105	End	3754
GI	none	Score	199
Exons	3105..3233, 3106..3234, 3324..3374, 3371..3493, 3372..3488, 3567..3626, 3728..3754		

Seq. No.	21158	Seq. ID	OJ990827_09.0103.C9
Gene No.	44188	Strand	-
Start	2081	End	6741
Name	OJ990827_09.0103.C9.o1.tm	Method	TBLASTX:Maize
Start	3399	End	6741
GI	none	Score	145
Exons	3399..3488, 3401..3493, 3552..3635, 3567..3626, 3715..3906, 3727..3906, 3728..3907, 3981..4085, 3986..4087, 3988..4086, 5325..5459, 5327..5443, 5522..5623, 5523..5621, 5524..5622, 5550..5633, 5717..5821, 5725..5823, 5725..5838, 5901..5939, 5903..6049, 5904..6047, 5905..6048, 5905..6051, 5976..6077, 6117..6251, 6128..6253, 6129..6254, 6134..6253, 6343..6474, 6347..6481, 6348..6482, 6591..6668, 6592..6669, 6592..6669, 6599..6670, 6655..6735, 6671..6727, 6676..6741		

Seq. No.	21158	Seq. ID	OJ990827_09.0103.C9
Gene No.	44188	Strand	-
Start	2081	End	6741
Name	OJ990827_09.0103.C9.o1.ts	Method	TBLASTX:Soybean
Start	3585	End	6166
GI	none	Score	73
Exons	3585..3626, 3585..3635, 3715..3906, 3728..3907, 3981..4085, 3981..4085, 3983..4087, 3983..4087, 5312..5443, 5325..5459, 5328..5444, 5522..5623, 5523..5621, 5524..5655, 5725..5823, 5727..5798, 5740..5829, 5900..6049, 5904..6047, 6129..6164,		

6134..6166

Seq. No.	21158	Seq. ID	OJ990827_09.0103.C9
Gene No.	44188	Strand	-
Start	2081	End	6741
Name	OJ990827_09.0103.C9.o1.tc	Method	TBLASTX:Cress
Start	5727	End	6414
GI	none	Score	140
Exons	5727..5798, 5728..5823, 5734..5838, 5900..6049, 5904..6047, 6117..6251, 6129..6254, 6134..6253, 6343..6414, 6347..6409, 6348..6413		

Seq. No.	21158	Seq. ID	OJ990827_09.0103.C9
Gene No.	44188	Strand	-
Start	2081	End	6741
Name	OJ990827_09.0103.C9.o1.tw	Method	TBLASTX:Wheat
Start	5906	End	6435
GI	none	Score	234
Exons	5906..6049, 5907..6047, 5912..6049, 5914..6051, 5976..6077, 6117..6251, 6129..6254, 6134..6253, 6343..6435, 6348..6434		

Seq. No.	21159	Seq. ID	OJ990827_09.0103.C10
Gene No.	44189	Strand	+
Start	916	End	4889
Name	OJ990827_09.0103.C10.o1.np	Method	AAT/NAP
Start	916	End	3176
GI	5922623	Score	301
Exons	916..996, 1383..1541, 1709..1784, 3068..3176		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016856 dbj BAA85199.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	21159	Seq. ID	OJ990827_09.0103.C10
Gene No.	44189	Strand	+
Start	916	End	4889
Name	OJ990827_09.0103.C10.o2.np	Method	AAT/NAP
Start	916	End	1784
GI	5922623	Score	297
Exons	916..996, 1383..1541, 1709..1784		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016856 dbj BAA85199.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	21159	Seq. ID	OJ990827_09.0103.C10
Gene No.	44189	Strand	+
Start	916	End	4889
Name	OJ990827_09.0103.C10.o2.gs	Method	GENSCAN
Start	2623	End	4224
GI	none	Score	.86
Exons	2623..3884, 4017..4224		

Seq. No.	21159	Seq. ID	OJ990827_09.0103.C10
Gene No.	44189	Strand	+
Start	916	End	4889
Name	OJ990827_09.0103.C10.o3.np	Method	AAT/NAP
Start	2623	End	4889
GI	5803259	Score	2478

Exons 2623..3884, 3983..4359, 4834..4889  
 GI Descrip. (AP000399) hypothetical protein [Oryza sativa]

Seq. No.	21159	Seq. ID	OJ990827_09.0103.C10
Gene No.	44189	Strand	+
Start	916	End	4889
Name	OJ990827_09.0103.C10.o4.np	Method	AAT/NAP
Start	3407	End	4889
GI	5042454	Score	111

Exons 3407..3480, 4543..4667, 4850..4889  
 GI Descrip. (AC007789) putative polyprotein [Oryza sativa]

Seq. No.	21159	Seq. ID	OJ990827_09.0103.C10
Gene No.	44190	Strand	-
Start	4699	End	4754
Name	OJ990827_09.0103.C10.o5.np	Method	AAT/NAP
Start	4699	End	4754
GI	5042454	Score	68

Exons 4699..4754  
 GI Descrip. (AC007789) putative polyprotein [Oryza sativa]

Seq. No.	21160	Seq. ID	OJ990827_09.0103.C11
Gene No.	44191	Strand	+
Start	529	End	1236
Name	OJ990827_09.0103.C11.o1.gs	Method	GENSCAN
Start	529	End	1236
GI	none	Score	.78

Exons 529..743, 862..1051, 1186..1236

Seq. No.	21161	Seq. ID	OJ990827_09.0103.C14
Gene No.	44192	Strand	+
Start	9576	End	12717
Name	OJ990827_09.0103.C14.o2.gs	Method	GENSCAN
Start	9576	End	12657
GI	none	Score	.92

Exons 9576..9868, 9944..10027, 10351..10466, 12596..12657

Seq. No.	21161	Seq. ID	OJ990827_09.0103.C14
Gene No.	44192	Strand	+
Start	9576	End	12717
Name	OJ990827_09.0103.C14.o1.gp	Method	AAT/GAP
Start	9577	End	10009
GI	none	Score	847

Exons 9577..10009

Seq. No.	21161	Seq. ID	OJ990827_09.0103.C14
Gene No.	44192	Strand	+
Start	9576	End	12717
Name	OJ990827_09.0103.C14.o2.np	Method	AAT/NAP
Start	10329	End	10755
GI	4539302	Score	45

Exons 10329..10470, 10547..10755  
 GI Descrip. (AL049480) putative protein [Arabidopsis thaliana]

Seq. No.	21161	Seq. ID	OJ990827_09.0103.C14
Gene No.	44192	Strand	+
Start	9576	End	12717

Name	OJ990827_09.0103.C14.o2.gp	Method	AAT/GAP
Start	10756	End	12717
GI	none	Score	1995
Exons	10756..11050, 11772..12080, 12243..12717		

Seq. No.	21161	Seq. ID	OJ990827_09.0103.C14
Gene No.	44193	Strand	-
Start	249	End	3454
Name	OJ990827_09.0103.C14.o1.np	Method	AAT/NAP
Start	249	End	3454
GI	5830786	Score	510
Exons	249..445, 931..1237, 1795..1876, 3426..3454		
GI Descrip.	(AL117188) putative protein [Arabidopsis thaliana]		

Seq. No.	21161	Seq. ID	OJ990827_09.0103.C14
Gene No.	44194	Strand	-
Start	13777	End	14984
Name	OJ990827_09.0103.C14.o1.ts	Method	TBLASTX:Soybean
Start	311	End	1239
GI	none	Score	55
Exons	311..358, 314..352, 378..446, 379..447, 914..1018, 914..1111, 930..1070, 1073..1237, 1095..1238, 1114..1239		

Seq. No.	21161	Seq. ID	OJ990827_09.0103.C14
Gene No.	44194	Strand	-
Start	13777	End	14984
Name	OJ990827_09.0103.C14.o3.gs	Method	GENSCAN
Start	13777	End	14984
GI	none	Score	.77
Exons	13777..13980, 14040..14101, 14873..14984		

Seq. No.	21162	Seq. ID	OJ990827_09.0103.C15
Gene No.	44195	Strand	+
Start	217	End	941
Name	OJ990827_09.0103.C15.o1.gs	Method	GENSCAN
Start	217	End	941
GI	none	Score	.95
Exons	217..941		

Seq. No.	21162	Seq. ID	OJ990827_09.0103.C15
Gene No.	44196	Strand	-
Start	625	End	1114
Name	OJ990827_09.0103.C15.o1.tm	Method	TBLASTX:Maize
Start	368	End	686
GI	none	Score	193
Exons	368..463, 369..506, 483..530, 534..656, 534..686		

Seq. No.	21162	Seq. ID	OJ990827_09.0103.C15
Gene No.	44196	Strand	-
Start	625	End	1114
Name	OJ990827_09.0103.C15.o1.gp	Method	AAT/GAP
Start	625	End	1114
GI	none	Score	925
Exons	625..1114		

Seq. No.	21162	Seq. ID	OJ990827_09.0103.C15
Gene No.	44196	Strand	-

Start	625	End	1114
Name	OJ990827_09.0103.C15.o2.tm	Method	TBLASTX:Maize
Start	717	End	906
GI	none	Score	78
Exons	717..779, 718..780, 750..782, 786..905, 786..905, 790..906		

Seq. No.	21163	Seq. ID	OJ990827_09.0103.C16
Gene No.	44197	Strand	+
Start	9193	End	9670
Name	OJ990827_09.0103.C16.o1.gp	Method	AAT/GAP
Start	9193	End	9670
GI	none	Score	900
Exons	9193..9670		

Seq. No.	21163	Seq. ID	OJ990827_09.0103.C16
Gene No.	44198	Strand	+
Start	15060	End	15466
Name	OJ990827_09.0103.C16.o3.gs	Method	GENSCAN
Start	15060	End	15459
GI	none	Score	.4
Exons	15060..15127, 15173..15459		

Seq. No.	21163	Seq. ID	OJ990827_09.0103.C16
Gene No.	44198	Strand	+
Start	15060	End	15466
Name	OJ990827_09.0103.C16.o4.gp	Method	AAT/GAP
Start	15178	End	15466
GI	none	Score	534
Exons	15178..15466		

Seq. No.	21163	Seq. ID	OJ990827_09.0103.C16
Gene No.	44199	Strand	-
Start	2029	End	8065
Name	OJ990827_09.0103.C16.o1.gs	Method	GENSCAN
Start	2029	End	8065
GI	none	Score	.68
Exons	2029..2229, 2240..2420, 5486..5517, 5564..5716, 6266..6453, 6965..7354, 7954..8065		

Seq. No.	21163	Seq. ID	OJ990827_09.0103.C16
Gene No.	44200	Strand	-
Start	9518	End	11272
Name	OJ990827_09.0103.C16.o3.tm	Method	TBLASTX:Maize
Start	5680	End	6467
GI	none	Score	61
Exons	5680..5712, 6266..6457, 6266..6466, 6267..6467		

Seq. No.	21163	Seq. ID	OJ990827_09.0103.C16
Gene No.	44200	Strand	-
Start	9518	End	11272
Name	OJ990827_09.0103.C16.o1.tm	Method	TBLASTX:Maize
Start	9486	End	10111
GI	none	Score	50
Exons	9486..9554, 9564..9851, 9575..10111, 9581..9940, 9894..10109		

Seq. No.	21163	Seq. ID	OJ990827_09.0103.C16
Gene No.	44200	Strand	-

Start	9518	End	11272
Name	OJ990827_09.0103.C16.o2.gs	Method	GENSCAN
Start	9518	End	11068
GI	none	Score	.86
Exons	9518..11068		
Seq. No.	21163	Seq. ID	OJ990827_09.0103.C16
Gene No.	44200	Strand	-
Start	9518	End	11272
Name	OJ990827_09.0103.C16.o1.np	Method	AAT/NAP
Start	9521	End	11124
GI	3641661	Score	1569
Exons	9521..11124		
GI Descrip.	(AB008519) high affinity nitrate transporter [Oryza sativa]		
Seq. No.	21163	Seq. ID	OJ990827_09.0103.C16
Gene No.	44200	Strand	-
Start	9518	End	11272
Name	OJ990827_09.0103.C16.o1.ts	Method	TBLASTX:Soybean
Start	9530	End	11078
GI	none	Score	45
Exons	9530..9694, 9576..9644, 9698..9997, 9699..9806, 9897..9998, 9963..10511, 10040..10513, 10241..10513, 10563..11078, 10577..11008		
Seq. No.	21163	Seq. ID	OJ990827_09.0103.C16
Gene No.	44200	Strand	-
Start	9518	End	11272
Name	OJ990827_09.0103.C16.o1.tc	Method	TBLASTX:Cress
Start	9545	End	11008
GI	none	Score	42
Exons	9545..9691, 9588..9626, 9704..9997, 9705..9845, 9978..10511, 10040..10513, 10241..10513, 10577..11008, 10584..11006		
Seq. No.	21163	Seq. ID	OJ990827_09.0103.C16
Gene No.	44200	Strand	-
Start	9518	End	11272
Name	OJ990827_09.0103.C16.o2.gp	Method	AAT/GAP
Start	10075	End	10543
GI	uC-osroM202031e01b1	Score	926
Exons	10075..10543		
GI Descrip.	'3005576 1.0e-54 (AF047718) putative high affinity nitrate transporter; GmNRT2 [Glycine max]'		
Seq. No.	21163	Seq. ID	OJ990827_09.0103.C16
Gene No.	44200	Strand	-
Start	9518	End	11272
Name	OJ990827_09.0103.C16.o2.tm	Method	TBLASTX:Maize
Start	10577	End	11051
GI	none	Score	308
Exons	10577..11050, 10584..11051		
Seq. No.	21163	Seq. ID	OJ990827_09.0103.C16
Gene No.	44200	Strand	-
Start	9518	End	11272
Name	OJ990827_09.0103.C16.o3.gp	Method	AAT/GAP
Start	10749	End	11272

GI 52955\_1.R1084 Score 1033  
 Exons 10749..11272  
 GI Descrip. '3608364 7.0e-26 (AF019749) high-affinity nitrate transporter  
 ACH2 [Arabidopsis thaliana]'

Seq. No. 21163 Seq. ID OJ990827\_09.0103.C16  
 Gene No. 44200 Strand -  
 Start 9518 End 11272  
 Name OJ990827\_09.0103.C16.o1.tw Method TBLASTX:Wheat  
 Start 10842 End 11008  
 GI none Score 165  
 Exons 10842..11006, 10847..11008

Seq. No. 21164 Seq. ID OJ990827\_09.0103.C17  
 Gene No. 44201 Strand +  
 Start 1 End 422  
 Name OJ990827\_09.0103.C17.o1.gp Method AAT/GAP  
 Start 1 End 241  
 GI none Score 463  
 Exons 1..241

Seq. No. 21164 Seq. ID OJ990827\_09.0103.C17  
 Gene No. 44201 Strand +  
 Start 1 End 422  
 Name OJ990827\_09.0103.C17.o1.gs Method GENSCAN  
 Start 96 End 422  
 GI none Score .85  
 Exons 96..422

Seq. No. 21164 Seq. ID OJ990827\_09.0103.C17  
 Gene No. 44202 Strand -  
 Start 292 End 694  
 Name OJ990827\_09.0103.C17.o2.gp Method AAT/GAP  
 Start 292 End 694  
 GI none Score 798  
 Exons 292..694

Seq. No. 21164 Seq. ID OJ990827\_09.0103.C17  
 Gene No. 44203 Strand -  
 Start 712 End 842  
 Name OJ990827\_09.0103.C17.o1.tm Method TBLASTX:Maize  
 Start 1 End 416  
 GI none Score 74  
 Exons 1..54, 6..53, 144..416, 149..415

Seq. No. 21164 Seq. ID OJ990827\_09.0103.C17  
 Gene No. 44203 Strand -  
 Start 712 End 842  
 Name OJ990827\_09.0103.C17.o3.gp Method AAT/GAP  
 Start 712 End 842  
 GI none Score 202  
 Exons 712..842

Seq. No. 21165 Seq. ID OJ990827\_09.0103.C18  
 Gene No. 44204 Strand -  
 Start 1 End 2477  
 Name OJ990827\_09.0103.C18.o1.gp Method AAT/GAP

Start	1	End	843
GI	18382_1.R1084	Score	1594
Exons	1..843		
GI Descrip.	'1871192 2.0e-14 (U90439) Cys3His zinc finger protein isolog [Arabidopsis thaliana]'		

Seq. No.	21165	Seq. ID	OJ990827_09.0103.C18
Gene No.	44204	Strand	-
Start	1	End	2477
Name	OJ990827_09.0103.C18.o4.tm	Method	TBLASTX:Maize
Start	10	End	309
GI	none	Score	79
Exons	10..123, 11..127, 141..224, 148..267, 150..266, 246..302, 263..304, 265..309		

Seq. No.	21165	Seq. ID	OJ990827_09.0103.C18
Gene No.	44204	Strand	-
Start	1	End	2477
Name	OJ990827_09.0103.C18.o2.tw	Method	TBLASTX:Wheat
Start	251	End	620
GI	none	Score	71
Exons	251..349, 259..303, 305..334, 383..595, 386..595, 557..619, 561..620		

Seq. No.	21165	Seq. ID	OJ990827_09.0103.C18
Gene No.	44204	Strand	-
Start	1	End	2477
Name	OJ990827_09.0103.C18.o1.tm	Method	TBLASTX:Maize
Start	352	End	1004
GI	none	Score	155
Exons	352..510, 365..532, 374..511, 378..533, 512..715, 513..635, 514..771, 580..771, 769..987, 772..849, 777..1004, 779..1003		

Seq. No.	21165	Seq. ID	OJ990827_09.0103.C18
Gene No.	44204	Strand	-
Start	1	End	2477
Name	OJ990827_09.0103.C18.o1.gs	Method	GENSCAN
Start	401	End	2354
GI	none	Score	.67
Exons	401..1191, 1302..1516, 1738..2354		

Seq. No.	21165	Seq. ID	OJ990827_09.0103.C18
Gene No.	44204	Strand	-
Start	1	End	2477
Name	OJ990827_09.0103.C18.o1.np	Method	AAT/NAP
Start	407	End	2477
GI	1871192	Score	1611
Exons	407..524, 564..2477		
GI Descrip.	(U90439) putative CCCH-type zinc finger protein [Arabidopsis thaliana]		

Seq. No.	21165	Seq. ID	OJ990827_09.0103.C18
Gene No.	44204	Strand	-
Start	1	End	2477
Name	OJ990827_09.0103.C18.o1.ts	Method	TBLASTX:Soybean
Start	425	End	1911
GI	none	Score	35



Exons 425..466, 471..512, 587..682, 588..635, 662..712, 702..743, 791..952, 825..869, 981..1178, 1045..1179, 1064..1210, 1079..1183, 1234..1317, 1317..1364, 1318..1443, 1321..1434, 1322..1447, 1425..1460, 1503..1910, 1507..1911

Seq. No. 21165 Seq. ID OJ990827\_09.0103.C18  
Gene No. 44204 Strand -  
Start 1 End 2477  
Name OJ990827\_09.0103.C18.o2.gp Method AAT/GAP  
Start 1003 End 1380  
GI 2310056 Score 699  
Exons 1003..1380  
GI Descrip. 1871192 2.0e-14 (U90439) Cys3His zinc finger protein isolog  
[Arabidopsis thaliana]

Seq. No. 21165 Seq. ID OJ990827\_09.0103.C18  
Gene No. 44204 Strand -  
Start 1 End 2477  
Name OJ990827\_09.0103.C18.o3.tm Method TBLASTX:Maize  
Start 1068 End 1548  
GI none Score 191  
Exons 1068..1211, 1069..1212, 1070..1210, 1204..1317, 1209..1325, 1210..1320, 1317..1457, 1318..1548, 1318..1545

Seq. No. 21165 Seq. ID OJ990827\_09.0103.C18  
Gene No. 44204 Strand -  
Start 1 End 2477  
Name OJ990827\_09.0103.C18.o1.tc Method TBLASTX:Cress  
Start 1375 End 1860  
GI none Score 56  
Exons 1375..1446, 1410..1856, 1507..1857, 1522..1860

Seq. No. 21165 Seq. ID OJ990827\_09.0103.C18  
Gene No. 44204 Strand -  
Start 1 End 2477  
Name OJ990827\_09.0103.C18.o1.tw Method TBLASTX:Wheat  
Start 1521 End 1913  
GI none Score 139  
Exons 1521..1691, 1522..1689, 1530..1691, 1698..1913, 1705..1863

Seq. No. 21165 Seq. ID OJ990827\_09.0103.C18  
Gene No. 44204 Strand -  
Start 1 End 2477  
Name OJ990827\_09.0103.C18.o5.tm Method TBLASTX:Maize  
Start 1548 End 1664  
GI none Score 119  
Exons 1548..1664, 1549..1659

Seq. No. 21165 Seq. ID OJ990827\_09.0103.C18  
Gene No. 44204 Strand -  
Start 1 End 2477  
Name OJ990827\_09.0103.C18.o3.gp Method AAT/GAP  
Start 1601 End 2477  
GI 30799\_1.R1084 Score 1730  
Exons 1601..2477  
GI Descrip. '1871192 1.0e-89 (U90439) Cys3His zinc finger protein isolog  
[Arabidopsis thaliana]'

Seq. No.	21165	Seq. ID	OJ990827_09.0103.C18
Gene No.	44204	Strand	-
Start	1	End	2477
Name	OJ990827_09.0103.C18.o2.tm	Method	TBLASTX:Maize
Start	1669	End	2040
GI	none	Score	518
Exons	1669..2040, 1671..2039		

Seq. No.	21165	Seq. ID	OJ990827_09.0103.C18
Gene No.	44204	Strand	-
Start	1	End	2477
Name	OJ990827_09.0103.C18.o2.tc	Method	TBLASTX:Cress
Start	1968	End	2382
GI	none	Score	36
Exons	1968..2054, 2082..2378, 2122..2157, 2230..2382		

Seq. No.	21166	Seq. ID	OJ990827_09.0103.C19
Gene No.	44205	Strand	+
Start	4397	End	5222
Name	OJ990827_09.0103.C19.o2.gs	Method	GENSCAN
Start	4397	End	5222
GI	none	Score	.69
Exons	4397..4477, 4554..4623, 4824..5222		

Seq. No.	21167	Seq. ID	OJ990827_09.0103.C20
Gene No.	44206	Strand	+
Start	57	End	295
Name	OJ990827_09.0103.C20.o1.gp	Method	AAT/GAP
Start	57	End	295
GI	none	Score	390
Exons	57..295		

Seq. No.	21167	Seq. ID	OJ990827_09.0103.C20
Gene No.	44207	Strand	-
Start	351	End	933
Name	OJ990827_09.0103.C20.o2.gp	Method	AAT/GAP
Start	280	End	630
GI	LIB3433-051-P1-K1-B3	Score	394
Exons	280..435, 575..630		
GI Descrip.	'4895260/gb AAD32844.1 AC007658_3 9.0e-16 (AC007658) thioredoxin-like protein [Arabidopsis thaliana]'		

Seq. No.	21167	Seq. ID	OJ990827_09.0103.C20
Gene No.	44207	Strand	-
Start	351	End	933
Name	OJ990827_09.0103.C20.o1.tm	Method	TBLASTX:Maize
Start	325	End	794
GI	none	Score	95
Exons	325..438, 325..447, 327..449, 572..631, 574..630, 706..789, 708..794		

Seq. No.	21167	Seq. ID	OJ990827_09.0103.C20
Gene No.	44207	Strand	-
Start	351	End	933
Name	OJ990827_09.0103.C20.o1.ts	Method	TBLASTX:Soybean
Start	345	End	816

GI	none	Score	68
Exons	345..422, 405..443, 572..649, 574..630, 703..816, 708..815		
Seq. No.	21167	Seq. ID	OJ990827_09.0103.C20
Gene No.	44207	Strand	-
Start	351	End	933
Name	OJ990827_09.0103.C20.o1.gs	Method	GENSCAN
Start	351	End	833
GI	none	Score	.81
Exons	351..435, 575..630, 708..833		
Seq. No.	21167	Seq. ID	OJ990827_09.0103.C20
Gene No.	44207	Strand	-
Start	351	End	933
Name	OJ990827_09.0103.C20.o1.np	Method	AAT/NAP
Start	354	End	933
GI	4895260	Score	211
Exons	354..435, 575..630, 708..933		
GI Descrip.	(AC007658) unknown protein [Arabidopsis thaliana]		
Seq. No.	21168	Seq. ID	OJ990827_09.0103.C21
Gene No.	44208	Strand	-
Start	448	End	548
Name	OJ990827_09.0103.C21.o1.gs	Method	GENSCAN
Start	448	End	548
GI	none	Score	.67
Exons	448..548		
Seq. No.	21169	Seq. ID	OJ990827_09.0103.C22
Gene No.	44209	Strand	+
Start	1	End	2657
Name	OJ990827_09.0103.C22.o1.np	Method	AAT/NAP
Start	1	End	2657
GI	4680179	Score	4309
Exons	1..2657		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		
Seq. No.	21169	Seq. ID	OJ990827_09.0103.C22
Gene No.	44209	Strand	+
Start	1	End	2657
Name	OJ990827_09.0103.C22.o4.tw	Method	TBLASTX:Wheat
Start	26	End	376
GI	none	Score	65
Exons	26..109, 37..84, 91..171, 92..175, 175..303, 179..376, 206..373		
Seq. No.	21169	Seq. ID	OJ990827_09.0103.C22
Gene No.	44209	Strand	+
Start	1	End	2657
Name	OJ990827_09.0103.C22.o4.tm	Method	TBLASTX:Maize
Start	188	End	688
GI	none	Score	157
Exons	188..367, 353..688, 440..679		
Seq. No.	21169	Seq. ID	OJ990827_09.0103.C22
Gene No.	44209	Strand	+
Start	1	End	2657
Name	OJ990827_09.0103.C22.o1.ts	Method	TBLASTX:Soybean

Start	242	End	646
GI	none	Score	57
Exons	242..274, 242..274, 278..637, 281..646		

Seq. No.	21169	Seq. ID	OJ990827_09.0103.C22
Gene No.	44209	Strand	+
Start	1	End	2657
Name	OJ990827_09.0103.C22.o5.tw	Method	TBLASTX:Wheat
Start	378	End	652
GI	none	Score	55
Exons	378..431, 378..434, 379..651, 380..652, 383..652		

Seq. No.	21169	Seq. ID	OJ990827_09.0103.C22
Gene No.	44209	Strand	+
Start	1	End	2657
Name	OJ990827_09.0103.C22.o2.tw	Method	TBLASTX:Wheat
Start	653	End	1162
GI	none	Score	643
Exons	653..1162, 685..1071		

Seq. No.	21169	Seq. ID	OJ990827_09.0103.C22
Gene No.	44209	Strand	+
Start	1	End	2657
Name	OJ990827_09.0103.C22.o3.ts	Method	TBLASTX:Soybean
Start	662	End	904
GI	none	Score	197
Exons	662..904		

Seq. No.	21169	Seq. ID	OJ990827_09.0103.C22
Gene No.	44209	Strand	+
Start	1	End	2657
Name	OJ990827_09.0103.C22.o2.tm	Method	TBLASTX:Maize
Start	725	End	1078
GI	none	Score	483
Exons	725..1078, 727..993, 767..1063		

Seq. No.	21169	Seq. ID	OJ990827_09.0103.C22
Gene No.	44209	Strand	+
Start	1	End	2657
Name	OJ990827_09.0103.C22.o3.tw	Method	TBLASTX:Wheat
Start	1166	End	1645
GI	none	Score	589
Exons	1166..1645, 1184..1639, 1261..1644		

Seq. No.	21169	Seq. ID	OJ990827_09.0103.C22
Gene No.	44209	Strand	+
Start	1	End	2657
Name	OJ990827_09.0103.C22.o1.tc	Method	TBLASTX:Cress
Start	1343	End	1669
GI	none	Score	90
Exons	1343..1525, 1526..1669		

Seq. No.	21169	Seq. ID	OJ990827_09.0103.C22
Gene No.	44209	Strand	+
Start	1	End	2657
Name	OJ990827_09.0103.C22.o2.ts	Method	TBLASTX:Soybean
Start	1433	End	1693

GI	none	Score	294
Exons	1433..1693, 1438..1539, 1625..1693		
Seq. No.	21169	Seq. ID	OJ990827_09.0103.C22
Gene No.	44209	Strand	+
Start	1	End	2657
Name	OJ990827_09.0103.C22.o3.tm	Method	TBLASTX:Maize
Start	1493	End	1783
GI	none	Score	384
Exons	1493..1783, 1562..1774, 1594..1779		
Seq. No.	21169	Seq. ID	OJ990827_09.0103.C22
Gene No.	44209	Strand	+
Start	1	End	2657
Name	OJ990827_09.0103.C22.o1.tw	Method	TBLASTX:Wheat
Start	1652	End	2278
GI	none	Score	668
Exons	1652..2278, 1708..2277		
Seq. No.	21169	Seq. ID	OJ990827_09.0103.C22
Gene No.	44209	Strand	+
Start	1	End	2657
Name	OJ990827_09.0103.C22.o1.tm	Method	TBLASTX:Maize
Start	1832	End	2419
GI	none	Score	226
Exons	1832..1993, 1838..1984, 1840..1986, 1991..2089, 1991..2059, 1993..2088, 2107..2403, 2150..2419, 2158..2418		
Seq. No.	21169	Seq. ID	OJ990827_09.0103.C22
Gene No.	44209	Strand	+
Start	1	End	2657
Name	OJ990827_09.0103.C22.o6.tw	Method	TBLASTX:Wheat
Start	2278	End	2612
GI	none	Score	227
Exons	2278..2487, 2279..2539, 2490..2612		
Seq. No.	21170	Seq. ID	OJ990827_09.0103.C23
Gene No.	44210	Strand	-
Start	1	End	821
Name	OJ990827_09.0103.C23.o1.np	Method	AAT/NAP
Start	1	End	821
GI	5295955	Score	201
Exons	1..187, 729..821		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		
Seq. No.	21170	Seq. ID	OJ990827_09.0103.C23
Gene No.	44210	Strand	-
Start	1	End	821
Name	OJ990827_09.0103.C23.o1.gs	Method	GENSCAN
Start	64	End	798
GI	none	Score	.8
Exons	64..187, 661..798		
Seq. No.	21171	Seq. ID	OJ990827_09.0103.C24
Gene No.	44211	Strand	-
Start	1	End	180

Name	OJ990827_09.0103.C24.o1.np	Method	AAT/NAP
Start	1	End	180
GI	6539555	Score	187
Exons	1..180		
GI Descrip.	(AP000836) Similar to mariner transposase (AF078934) [Oryza sativa] gi 6539592 dbj BAA88208.1  (AP000837) Similar to mariner transposase (AF078934) [Oryza sativa]		

Seq. No.	21171	Seq. ID	OJ990827_09.0103.C24
Gene No.	44212	Strand	-
Start	138	End	551
Name	OJ990827_09.0103.C24.o1.gs	Method	GENSCAN
Start	138	End	551
GI	none	Score	.63
Exons	138..374, 494..551		

Seq. No.	21172	Seq. ID	OJ990827_09.0103.C26
Gene No.	44213	Strand	+
Start	154	End	702
Name	OJ990827_09.0103.C26.o1.np	Method	AAT/NAP
Start	154	End	702
GI	3025299	Score	256
Exons	154..250, 336..702		
GI Descrip.	HYPOTHETICAL 62.3 KD PROTEIN T29M21.25 gi 2088660 gb AAB95294.1  (AF002109) putative ABC transporter [Arabidopsis thaliana]		

Seq. No.	21172	Seq. ID	OJ990827_09.0103.C26
Gene No.	44213	Strand	+
Start	154	End	702
Name	OJ990827_09.0103.C26.o1.tm	Method	TBLASTX:Maize
Start	203	End	501
GI	none	Score	78
Exons	203..250, 203..250, 331..501, 333..482		

Seq. No.	21172	Seq. ID	OJ990827_09.0103.C26
Gene No.	44213	Strand	+
Start	154	End	702
Name	OJ990827_09.0103.C26.o1.gs	Method	GENSCAN
Start	330	End	515
GI	none	Score	.6
Exons	330..515		

Seq. No.	21173	Seq. ID	OJ990827_09.0103.C27
Gene No.	44214	Strand	+
Start	1	End	340
Name	OJ990827_09.0103.C27.o1.np	Method	AAT/NAP
Start	1	End	340
GI	3025299	Score	117
Exons	1..55, 143..340		
GI Descrip.	HYPOTHETICAL 62.3 KD PROTEIN T29M21.25 gi 2088660 gb AAB95294.1  (AF002109) putative ABC transporter [Arabidopsis thaliana]		

Seq. No.	21173	Seq. ID	OJ990827_09.0103.C27
Gene No.	44215	Strand	+
Start	509	End	779
Name	OJ990827_09.0103.C27.o2.gp	Method	AAT/GAP
Start	509	End	779

GI	3762197	Score	507
Exons	509..779		
Seq. No.	21173	Seq. ID	OJ990827_09.0103.C27
Gene No.	44216	Strand	-
Start	142	End	456
Name	OJ990827_09.0103.C27.o1.gp	Method	AAT/GAP
Start	142	End	456
GI	2431222	Score	563
Exons	142..456		
GI Descrip.	3025299/sp O04212 YT25_ARATH 3.0e-29 HYPOTHETICAL 62.3 KD PROTEIN T29M21.25 >gi_2088660 (AF002109) ABC1 isolog [Arabidopsis thaliana] >gi_4895258_gb_AAD32842.1 AC007658_1 (AC007658) putative ABC1 protein [Arabidopsis thaliana]		
Seq. No.	21173	Seq. ID	OJ990827_09.0103.C27
Gene No.	44217	Strand	-
Start	1203	End	2633
Name	OJ990827_09.0103.C27.o1.tm	Method	TBLASTX:Maize
Start	142	End	333
GI	none	Score	188
Exons	142..210, 143..292, 167..286, 277..333		
Seq. No.	21173	Seq. ID	OJ990827_09.0103.C27
Gene No.	44217	Strand	-
Start	1203	End	2633
Name	OJ990827_09.0103.C27.o1.gs	Method	GENSCAN
Start	1203	End	2633
GI	none	Score	1
Exons	1203..2633		
Seq. No.	21174	Seq. ID	OJ990827_09.0103.C28
Gene No.	44218	Strand	-
Start	396	End	3303
Name	OJ990827_09.0103.C28.o1.gs	Method	GENSCAN
Start	396	End	3303
GI	none	Score	.8
Exons	396..658, 1444..1696, 1789..1922, 1992..3303		
Seq. No.	21174	Seq. ID	OJ990827_09.0103.C28
Gene No.	44219	Strand	-
Start	3518	End	9757
Name	OJ990827_09.0103.C28.o2.gs	Method	GENSCAN
Start	3518	End	9584
GI	none	Score	.65
Exons	3518..3616, 4256..4576, 5125..5421, 5772..5873, 5920..6027, 6120..6381, 6486..6784, 6844..6983, 7017..7278, 7364..7730, 7806..7959, 8424..8795, 9218..9584		
Seq. No.	21174	Seq. ID	OJ990827_09.0103.C28
Gene No.	44219	Strand	-
Start	3518	End	9757
Name	OJ990827_09.0103.C28.o1.np	Method	AAT/NAP
Start	5119	End	9757
GI	5441880	Score	1560
Exons	5119..5330, 5634..5881, 6120..6381, 6486..6784, 7364..7697, 7806..7945, 8545..8901, 9160..9179, 9623..9757		

GI Descrip. (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]

Seq. No.	21174	Seq. ID	OJ990827_09.0103.C28
Gene No.	44219	Strand	-
Start	3518	End	9757
Name	OJ990827_09.0103.C28.o1.gp	Method	AAT/GAP
Start	5440	End	5872
GI	LIB3433-020-P1-K1-A6	Score	688
Exons	5440..5872		
GI Descrip.	'5670155/gb AF161269.1 AF161269 2.0e-35 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence'		

Seq. No.	21174	Seq. ID	OJ990827_09.0103.C28
Gene No.	44219	Strand	-
Start	3518	End	9757
Name	OJ990827_09.0103.C28.o1.tw	Method	TBLASTX:Wheat
Start	9396	End	9755
GI	none	Score	73
Exons	9396..9569, 9407..9547, 9502..9570, 9594..9755, 9619..9747		

Seq. No.	21175	Seq. ID	OJ990827_09.0103.C29
Gene No.	44220	Strand	-
Start	1	End	749
Name	OJ990827_09.0103.C29.o1.np	Method	AAT/NAP
Start	1	End	749
GI	5441880	Score	865
Exons	1..749		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	21176	Seq. ID	OJ990827_09.0103.C30
Gene No.	44221	Strand	+
Start	3993	End	7921
Name	OJ990827_09.0103.C30.o1.np	Method	AAT/NAP
Start	3993	End	7921
GI	4206306	Score	3011
Exons	3993..7921		
GI Descrip.	(AF049110) prpol [Zea mays]		

Seq. No.	21176	Seq. ID	OJ990827_09.0103.C30
Gene No.	44221	Strand	+
Start	3993	End	7921
Name	OJ990827_09.0103.C30.o3.gs	Method	GENSCAN
Start	4883	End	7297
GI	none	Score	.85
Exons	4883..6047, 6141..6676, 6725..7297		

Seq. No.	21176	Seq. ID	OJ990827_09.0103.C30
Gene No.	44222	Strand	-
Start	57	End	734
Name	OJ990827_09.0103.C30.o1.gs	Method	GENSCAN
Start	57	End	734
GI	none	Score	.6
Exons	57..239, 279..734		



Seq. No.	21176	Seq. ID	OJ990827_09.0103.C30
Gene No.	44223	Strand	-
Start	8291	End	12007
Name	OJ990827_09.0103.C30.o6.tw	Method	TBLASTX:Wheat
Start	4239	End	4598
GI	none	Score	74
Exons	4239..4370, 4376..4597, 4377..4598		

Seq. No.	21176	Seq. ID	OJ990827_09.0103.C30
Gene No.	44223	Strand	-
Start	8291	End	12007
Name	OJ990827_09.0103.C30.o2.tw	Method	TBLASTX:Wheat
Start	4802	End	5155
GI	none	Score	338
Exons	4802..5155, 4828..5154, 4949..5155		

Seq. No.	21176	Seq. ID	OJ990827_09.0103.C30
Gene No.	44223	Strand	-
Start	8291	End	12007
Name	OJ990827_09.0103.C30.o2.tm	Method	TBLASTX:Maize
Start	4930	End	5287
GI	none	Score	388
Exons	4930..5286, 4931..5287		

Seq. No.	21176	Seq. ID	OJ990827_09.0103.C30
Gene No.	44223	Strand	-
Start	8291	End	12007
Name	OJ990827_09.0103.C30.o1.tw	Method	TBLASTX:Wheat
Start	5156	End	5575
GI	none	Score	466
Exons	5156..5575, 5156..5572, 5359..5574		

Seq. No.	21176	Seq. ID	OJ990827_09.0103.C30
Gene No.	44223	Strand	-
Start	8291	End	12007
Name	OJ990827_09.0103.C30.o1.tm	Method	TBLASTX:Maize
Start	5315	End	5698
GI	none	Score	404
Exons	5315..5698, 5425..5685		

Seq. No.	21176	Seq. ID	OJ990827_09.0103.C30
Gene No.	44223	Strand	-
Start	8291	End	12007
Name	OJ990827_09.0103.C30.o1.ts	Method	TBLASTX:Soybean
Start	5465	End	5817
GI	none	Score	274
Exons	5465..5800, 5467..5610, 5725..5817		

Seq. No.	21176	Seq. ID	OJ990827_09.0103.C30
Gene No.	44223	Strand	-
Start	8291	End	12007
Name	OJ990827_09.0103.C30.o5.tw	Method	TBLASTX:Wheat
Start	5576	End	5791
GI	none	Score	212
Exons	5576..5791, 5581..5685		

Seq. No.	21176	Seq. ID	OJ990827_09.0103.C30
Gene No.	44223	Strand	-
Start	8291	End	12007
Name	OJ990827_09.0103.C30.o2.ts	Method	TBLASTX:Soybean
Start	6065	End	6427
GI	none	Score	62
Exons	6065..6163, 6203..6427, 6205..6426		

Seq. No.	21176	Seq. ID	OJ990827_09.0103.C30
Gene No.	44223	Strand	-
Start	8291	End	12007
Name	OJ990827_09.0103.C30.o3.tw	Method	TBLASTX:Wheat
Start	6067	End	6492
GI	none	Score	327
Exons	6067..6183, 6068..6490, 6208..6303, 6325..6492		

Seq. No.	21176	Seq. ID	OJ990827_09.0103.C30
Gene No.	44223	Strand	-
Start	8291	End	12007
Name	OJ990827_09.0103.C30.o5.tm	Method	TBLASTX:Maize
Start	6434	End	6679
GI	none	Score	186
Exons	6434..6679		

Seq. No.	21176	Seq. ID	OJ990827_09.0103.C30
Gene No.	44223	Strand	-
Start	8291	End	12007
Name	OJ990827_09.0103.C30.o4.tm	Method	TBLASTX:Maize
Start	6713	End	6967
GI	none	Score	203
Exons	6713..6967, 6808..6966		

Seq. No.	21176	Seq. ID	OJ990827_09.0103.C30
Gene No.	44223	Strand	-
Start	8291	End	12007
Name	OJ990827_09.0103.C30.o4.tw	Method	TBLASTX:Wheat
Start	6809	End	7198
GI	none	Score	237
Exons	6809..7198		

Seq. No.	21176	Seq. ID	OJ990827_09.0103.C30
Gene No.	44223	Strand	-
Start	8291	End	12007
Name	OJ990827_09.0103.C30.o3.tm	Method	TBLASTX:Maize
Start	6968	End	7330
GI	none	Score	341
Exons	6968..7330, 7060..7329		

Seq. No.	21176	Seq. ID	OJ990827_09.0103.C30
Gene No.	44223	Strand	-
Start	8291	End	12007
Name	OJ990827_09.0103.C30.o3.ts	Method	TBLASTX:Soybean
Start	6971	End	7345
GI	none	Score	82
Exons	6971..7111, 7127..7345		

Seq. No.	21176	Seq. ID	OJ990827_09.0103.C30
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Gene No.	44223	Strand	-
Start	8291	End	12007
Name	OJ990827_09.0103.C30.o4.gs	Method	GENSCAN
Start	8291	End	12007
GI	none	Score	.65
Exons	8291..8338, 8928..9017, 9316..10130, 10487..10823, 10874..11036, 11050..11099, 11209..11748, 11920..12007		

Seq. No.	21177	Seq. ID	OJ990827_09.0103.C31
Gene No.	44224	Strand	-
Start	117	End	413
Name	OJ990827_09.0103.C31.o1.gs	Method	GENSCAN
Start	117	End	354
GI	none	Score	.41
Exons	117..354		

Seq. No.	21177	Seq. ID	OJ990827_09.0103.C31
Gene No.	44224	Strand	-
Start	117	End	413
Name	OJ990827_09.0103.C31.o1.tm	Method	TBLASTX:Maize
Start	243	End	413
GI	none	Score	256
Exons	243..413, 243..392		

Seq. No.	21178	Seq. ID	OJ990827_09.0103.C33
Gene No.	44225	Strand	+
Start	10	End	270
Name	OJ990827_09.0103.C33.o1.gs	Method	GENSCAN
Start	10	End	270
GI	none	Score	.82
Exons	10..72, 214..270		

Seq. No.	21179	Seq. ID	OJ990827_09.0103.C34
Gene No.	44226	Strand	-
Start	215	End	481
Name	OJ990827_09.0103.C34.o1.np	Method	AAT/NAP
Start	215	End	462
GI	2182267	Score	258
Exons	215..462		
GI Descrip.	(L37359) lipoxygenase [Hordeum vulgare]		

Seq. No.	21179	Seq. ID	OJ990827_09.0103.C34
Gene No.	44226	Strand	-
Start	215	End	481
Name	OJ990827_09.0103.C34.o1.tm	Method	TBLASTX:Maize
Start	248	End	481
GI	none	Score	205
Exons	248..481, 265..468		

Seq. No.	21179	Seq. ID	OJ990827_09.0103.C34
Gene No.	44226	Strand	-
Start	215	End	481
Name	OJ990827_09.0103.C34.o1.gp	Method	AAT/GAP
Start	251	End	454
GI	uC-osroM202028b09b1	Score	384
Exons	251..454		
GI Descrip.	'2182267/gb AAB60715.1  2.0e-58 (L37359) lipoxygenase [Hordeum		

vulgare]'

Seq. No.	21179	Seq. ID	OJ990827_09.0103.C34
Gene No.	44226	Strand	-
Start	215	End	481
Name	OJ990827_09.0103.C34.o1.gs	Method	GENSCAN
Start	252	End	462
GI	none	Score	.79
Exons	252..462		

Seq. No.	21180	Seq. ID	OJ990827_09.0103.C37
Gene No.	44227	Strand	+
Start	31	End	205
Name	OJ990827_09.0103.C37.o1.gs	Method	GENSCAN
Start	31	End	205
GI	none	Score	.9
Exons	31..65, 67..205		

Seq. No.	21181	Seq. ID	OJ990827_09.0103.C39
Gene No.	44228	Strand	-
Start	1	End	1648
Name	OJ990827_09.0103.C39.o1.np	Method	AAT/NAP
Start	1	End	1431
GI	4895260	Score	163
Exons	1..50, 1127..1201, 1336..1431		
GI Descrip.	(AC007658) unknown protein [Arabidopsis thaliana]		

Seq. No.	21181	Seq. ID	OJ990827_09.0103.C39
Gene No.	44228	Strand	-
Start	1	End	1648
Name	OJ990827_09.0103.C39.o1.ts	Method	TBLASTX:Soybean
Start	1146	End	1432
GI	none	Score	66
Exons	1146..1196, 1157..1198, 1157..1210, 1322..1432, 1336..1431		

Seq. No.	21181	Seq. ID	OJ990827_09.0103.C39
Gene No.	44228	Strand	-
Start	1	End	1648
Name	OJ990827_09.0103.C39.o1.gs	Method	GENSCAN
Start	1154	End	1431
GI	none	Score	.79
Exons	1154..1201, 1336..1431		

Seq. No.	21181	Seq. ID	OJ990827_09.0103.C39
Gene No.	44228	Strand	-
Start	1	End	1648
Name	OJ990827_09.0103.C39.o1.tm	Method	TBLASTX:Maize
Start	1157	End	1444
GI	none	Score	68
Exons	1157..1225, 1158..1226, 1331..1444, 1336..1443		

Seq. No.	21181	Seq. ID	OJ990827_09.0103.C39
Gene No.	44228	Strand	-
Start	1	End	1648
Name	OJ990827_09.0103.C39.o1.gp	Method	AAT/GAP
Start	1158	End	1648
GI	17868_2.R1084	Score	650

Exons 1158..1201, 1336..1648  
 GI Descrip. '3025299/sp|O04212|YT25\_ARATH 3.0e-29 HYPOTHETICAL 62.3 KD  
 PROTEIN T29M21.25 >gi\_2088660 (AF002109) ABC1 isolog  
 [Arabidopsis thaliana] >gi\_4895258\_gb AAD32842.1 AC007658\_1  
 (AC007658) putative ABC1 protein [Arabidopsis thaliana]'

Seq. No.	21182	Seq. ID	OJ990827_09.0103.C40
Gene No.	44229	Strand	-
Start	473	End	574
Name	OJ990827_09.0103.C40.o1.gs	Method	GENSCAN
Start	473	End	574
GI	none	Score	.72
Exons	473..574		

Seq. No.	21183	Seq. ID	OJ990827_09.0103.C42
Gene No.	44230	Strand	-
Start	468	End	975
Name	OJ990827_09.0103.C42.o1.gs	Method	GENSCAN
Start	468	End	975
GI	none	Score	.91
Exons	468..726, 817..975		

Seq. No.	21184	Seq. ID	OJ990827_09.0103.C43
Gene No.	44231	Strand	-
Start	418	End	1468
Name	OJ990827_09.0103.C43.o1.gs	Method	GENSCAN
Start	418	End	1468
GI	none	Score	.66
Exons	418..690, 794..924, 1369..1468		

Seq. No.	21185	Seq. ID	OJ990827_09.0103.C44
Gene No.	44232	Strand	+
Start	266	End	506
Name	OJ990827_09.0103.C44.o1.gs	Method	GENSCAN
Start	266	End	506
GI	none	Score	.57
Exons	266..506		

Seq. No.	21186	Seq. ID	OJ990827_09.0103.C45
Gene No.	44233	Strand	+
Start	363	End	685
Name	OJ990827_09.0103.C45.o1.gs	Method	GENSCAN
Start	363	End	685
GI	none	Score	.56
Exons	363..685		

Seq. No.	21187	Seq. ID	OJ990827_09.0103.C46
Gene No.	44234	Strand	-
Start	1	End	3201
Name	OJ990827_09.0103.C46.o1.np	Method	AAT/NAP
Start	1	End	3201
GI	2506825	Score	2105
Exons	1..350, 429..736, 844..950, 1046..1131, 1220..1561, 1820..2051, 2737..3035, 3165..3201		

GI Descrip. LIPOXYGENASE 1 gi|532572 (L35931) lipoxxygenase 1 [Hordeum  
 vulgare] gi|1094924|prf||2107185A lipoxxygenase [Hordeum vulgare]

Seq. No.	21187	Seq. ID	OJ990827_09.0103.C46
Gene No.	44234	Strand	-
Start	1	End	3201
Name	OJ990827_09.0103.C46.o1.gs	Method	GENSCAN
Start	57	End	3035
GI	none	Score	.86
Exons	57..167, 169..350, 429..736, 844..950, 1220..1555, 1632..1678, 1813..2051, 2247..2362, 2624..2642, 2737..3035		

Seq. No.	21187	Seq. ID	OJ990827_09.0103.C46
Gene No.	44234	Strand	-
Start	1	End	3201
Name	OJ990827_09.0103.C46.o1.tc	Method	TBLASTX:Cress
Start	87	End	3039
GI	none	Score	39
Exons	87..134, 132..176, 133..177, 168..344, 170..349, 206..352, 428..511, 429..512, 521..643, 522..647, 665..739, 844..945, 851..946, 1049..1132, 1212..1517, 1221..1391, 1348..1512, 1458..1514, 1515..1562, 1863..1895, 1905..1970, 1980..2054, 2740..2817, 2824..2907, 2825..2908, 2914..2979, 2915..2968, 2977..3039		

Seq. No.	21187	Seq. ID	OJ990827_09.0103.C46
Gene No.	44234	Strand	-
Start	1	End	3201
Name	OJ990827_09.0103.C46.o1.ts	Method	TBLASTX:Soybean
Start	87	End	3006
GI	none	Score	63
Exons	87..173, 88..174, 168..350, 182..349, 428..643, 429..644, 665..739, 844..945, 1058..1126, 1335..1400, 1404..1517, 1536..1562, 1896..1976, 1977..2054, 2740..2817, 2827..2916, 2828..2908, 2920..3006		

Seq. No.	21187	Seq. ID	OJ990827_09.0103.C46
Gene No.	44234	Strand	-
Start	1	End	3201
Name	OJ990827_09.0103.C46.o1.tw	Method	TBLASTX:Wheat
Start	115	End	670
GI	none	Score	76
Exons	115..177, 115..171, 117..176, 171..350, 173..352, 173..349, 225..350, 428..514, 429..512, 513..659, 518..670, 521..670		

Seq. No.	21187	Seq. ID	OJ990827_09.0103.C46
Gene No.	44234	Strand	-
Start	1	End	3201
Name	OJ990827_09.0103.C46.o1.tm	Method	TBLASTX:Maize
Start	168	End	736
GI	none	Score	123
Exons	168..350, 182..349, 188..352, 428..643, 429..647, 665..736		

Seq. No.	21187	Seq. ID	OJ990827_09.0103.C46
Gene No.	44234	Strand	-
Start	1	End	3201
Name	OJ990827_09.0103.C46.o2.tw	Method	TBLASTX:Wheat
Start	695	End	1385
GI	none	Score	61
Exons	695..739, 696..740, 842..931, 843..935, 844..945, 844..945,		

845..946, 1044..1100, 1044..1070, 1046..1132, 1215..1385,  
1221..1385

Seq. No.	21187	Seq. ID	OJ990827_09.0103.C46
Gene No.	44234	Strand	-
Start	1	End	3201
Name	OJ990827_09.0103.C46.o2.tm	Method	TBLASTX:Maize
Start	1044	End	1382
GI	none	Score	57
Exons	1044..1100, 1046..1132, 1212..1382, 1221..1379		

Seq. No.	21187	Seq. ID	OJ990827_09.0103.C46
Gene No.	44234	Strand	-
Start	1	End	3201
Name	OJ990827_09.0103.C46.o4.tm	Method	TBLASTX:Maize
Start	1383	End	1559
GI	none	Score	120
Exons	1383..1517, 1384..1518, 1458..1535, 1521..1559, 1524..1556		

Seq. No.	21187	Seq. ID	OJ990827_09.0103.C46
Gene No.	44234	Strand	-
Start	1	End	3201
Name	OJ990827_09.0103.C46.o3.tm	Method	TBLASTX:Maize
Start	2731	End	3033
GI	none	Score	79
Exons	2731..2817, 2732..2818, 2809..2907, 2825..2908, 2977..3033		

Seq. No.	21188	Seq. ID	OJ990827_09.0103.C47
Gene No.	44235	Strand	-
Start	1	End	492
Name	OJ990827_09.0103.C47.o1.np	Method	AAT/NAP
Start	1	End	492
GI	6721517	Score	679
Exons	1..492		
GI Descrip.	(AP001072) Similar to polyprotein. (AF061282) [Oryza sativa]		

Seq. No.	21188	Seq. ID	OJ990827_09.0103.C47
Gene No.	44235	Strand	-
Start	1	End	492
Name	OJ990827_09.0103.C47.o1.tw	Method	TBLASTX:Wheat
Start	50	End	404
GI	none	Score	76
Exons	50..403, 86..220, 309..404		

Seq. No.	21188	Seq. ID	OJ990827_09.0103.C47
Gene No.	44235	Strand	-
Start	1	End	492
Name	OJ990827_09.0103.C47.o1.tm	Method	TBLASTX:Maize
Start	137	End	457
GI	none	Score	188
Exons	137..457		

Seq. No.	21189	Seq. ID	OJ990827_09.0103.C48
Gene No.	44236	Strand	+
Start	93	End	3112
Name	OJ990827_09.0103.C48.o1.gs	Method	GENSCAN
Start	93	End	3112

GI	none	Score	.81
Exons	93..206, 208..471, 945..987, 1905..2179, 2984..3112		
Seq. No.	21190	Seq. ID	OJ990827_09.0103.C49
Gene No.	44237	Strand	+
Start	47	End	224
Name	OJ990827_09.0103.C49.o1.gs	Method	GENSCAN
Start	47	End	224
GI	none	Score	.86
Exons	47..224		
Seq. No.	21191	Seq. ID	OJ990827_09.0103.C50
Gene No.	44238	Strand	+
Start	194	End	487
Name	OJ990827_09.0103.C50.o1.gs	Method	GENSCAN
Start	194	End	487
GI	none	Score	.96
Exons	194..487		
Seq. No.	21192	Seq. ID	OJ990827_09.0103.C51
Gene No.	44239	Strand	+
Start	53	End	203
Name	OJ990827_09.0103.C51.o1.gs	Method	GENSCAN
Start	53	End	203
GI	none	Score	.91
Exons	53..203		
Seq. No.	21192	Seq. ID	OJ990827_09.0103.C51
Gene No.	44240	Strand	-
Start	730	End	2302
Name	OJ990827_09.0103.C51.o2.gs	Method	GENSCAN
Start	730	End	2302
GI	none	Score	.59
Exons	730..802, 995..1092, 1993..2302		
Seq. No.	21193	Seq. ID	OJ990827_09.0103.C53
Gene No.	44241	Strand	-
Start	1	End	552
Name	OJ990827_09.0103.C53.o1.gp	Method	AAT/GAP
Start	1	End	552
GI	16071_1.R1084	Score	1075
Exons	1..552		
GI Descrip.	'2506825/sp P29114 LOX1_HORVU 1.0e-119 LIPOXYGENASE 1 >gi_532572 (L35931) lipoxxygenase 1 [Hordeum vulgare] >gi_1094924_prf__2107185A lipoxxygenase [Hordeum vulgare]'		
Seq. No.	21193	Seq. ID	OJ990827_09.0103.C53
Gene No.	44241	Strand	-
Start	1	End	552
Name	OJ990827_09.0103.C53.o1.np	Method	AAT/NAP
Start	1	End	552
GI	2506825	Score	832
Exons	1..552		
GI Descrip.	LIPOXYGENASE 1 gi 532572 (L35931) lipoxxygenase 1 [Hordeum vulgare] gi 1094924 prf  2107185A lipoxxygenase [Hordeum vulgare]		
Seq. No.	21193	Seq. ID	OJ990827_09.0103.C53



Gene No.	44241	Strand	-
Start	1	End	552
Name	OJ990827_09.0103.C53.ol.tc	Method	TBLASTX:Cress
Start	2	End	547
GI	none	Score	85
Exons	2..547, 3..140, 197..529, 213..536		
Seq. No.	21193	Seq. ID	OJ990827_09.0103.C53
Gene No.	44241	Strand	-
Start	1	End	552
Name	OJ990827_09.0103.C53.ol.ts	Method	TBLASTX:Soybean
Start	2	End	547
GI	none	Score	81
Exons	2..136, 2..547, 6..539		
Seq. No.	21193	Seq. ID	OJ990827_09.0103.C53
Gene No.	44241	Strand	-
Start	1	End	552
Name	OJ990827_09.0103.C53.ol.tm	Method	TBLASTX:Maize
Start	3	End	541
GI	none	Score	60
Exons	3..152, 8..172, 182..367, 189..308, 351..530, 365..532, 371..541		
Seq. No.	21193	Seq. ID	OJ990827_09.0103.C53
Gene No.	44241	Strand	-
Start	1	End	552
Name	OJ990827_09.0103.C53.ol.gs	Method	GENSCAN
Start	49	End	427
GI	none	Score	.54
Exons	49..427		
Seq. No.	21193	Seq. ID	OJ990827_09.0103.C53
Gene No.	44241	Strand	-
Start	1	End	552
Name	OJ990827_09.0103.C53.ol.tw	Method	TBLASTX:Wheat
Start	161	End	430
GI	none	Score	330
Exons	161..427, 192..428, 197..430		
Seq. No.	21194	Seq. ID	OJ990827_09.0103.C54
Gene No.	44242	Strand	-
Start	1431	End	2163
Name	OJ990827_09.0103.C54.ol.gp	Method	AAT/GAP
Start	1255	End	2163
GI	1009_1.R1084	Score	1788
Exons	1255..2163		
GI Descrip.	'3334279/sp Q40646 OLE2_ORYSA 2.0e-25 OLEOSIN 18 KD (OSE721) >gi_1171354 (U43931) 18 kDa oleosin [Oryza sativa] >gi_4102969 (AF019212) 18 kDa oleosin [Oryza sativa subsp. indica]		
Seq. No.	21194	Seq. ID	OJ990827_09.0103.C54
Gene No.	44242	Strand	-
Start	1431	End	2163
Name	OJ990827_09.0103.C54.ol.gs	Method	GENSCAN
Start	1431	End	2141
GI	none	Score	.9
Exons	1431..1545, 1627..2141		

Seq. No.	21194	Seq. ID	OJ990827_09.0103.C54
Gene No.	44242	Strand	-
Start	1431	End	2163
Name	OJ990827_09.0103.C54.ol.np	Method	AAT/NAP
Start	1626	End	2141
GI	3334279	Score	831
Exons	1626..2141		
GI Descrip.	OLEOSIN 18 KD (OSE721) gi 1171354 (U43931) 18 kDa oleosin [Oryza sativa] gi 4102969 (AF019212) 18 kDa oleosin [Oryza sativa subsp. indica]		

Seq. No.	21194	Seq. ID	OJ990827_09.0103.C54
Gene No.	44242	Strand	-
Start	1431	End	2163
Name	OJ990827_09.0103.C54.ol.tm	Method	TBLASTX:Maize
Start	1749	End	2090
GI	none	Score	87
Exons	1749..1829, 1764..1940, 1771..2088, 2010..2090		

Seq. No.	21195	Seq. ID	OJ990827_09.0103.C55
Gene No.	44243	Strand	-
Start	30	End	4146
Name	OJ990827_09.0103.C55.ol.gs	Method	GENSCAN
Start	30	End	2978
GI	none	Score	.74
Exons	30..192, 402..450, 544..611, 699..767, 882..951, 1047..1159, 1197..1275, 1440..1516, 1601..1727, 1969..2065, 2192..2230, 2525..2633, 2766..2978		

Seq. No.	21195	Seq. ID	OJ990827_09.0103.C55
Gene No.	44243	Strand	-
Start	30	End	4146
Name	OJ990827_09.0103.C55.ol.ts	Method	TBLASTX:Soybean
Start	529	End	968
GI	none	Score	64
Exons	529..615, 543..611, 696..773, 699..773, 882..968, 886..966		

Seq. No.	21195	Seq. ID	OJ990827_09.0103.C55
Gene No.	44243	Strand	-
Start	30	End	4146
Name	OJ990827_09.0103.C55.ol.np	Method	AAT/NAP
Start	614	End	4146
GI	3123171	Score	27
Exons	614..756, 1989..2065, 4092..4146		
GI Descrip.	HYPOTHETICAL 80.3 KD TRP-ASP REPEATS CONTAINING PROTEIN K10B2.1 IN CHROMOSOME II gi 860695 (U28730) similar to beta-transducin [Caenorhabditis elegans]		

Seq. No.	21195	Seq. ID	OJ990827_09.0103.C55
Gene No.	44243	Strand	-
Start	30	End	4146
Name	OJ990827_09.0103.C55.ol.tw	Method	TBLASTX:Wheat
Start	1742	End	2225
GI	none	Score	95
Exons	1742..1873, 1771..1866, 1773..1889, 1773..1871, 1775..1873, 1935..2063, 1970..2065, 1971..2066, 2183..2218, 2187..2225,		

2189..2221

Seq. No.	21196	Seq. ID	OJ990827_09.0103.C56
Gene No.	44244	Strand	+
Start	556	End	718
Name	OJ990827_09.0103.C56.o1.gs	Method	GENSCAN
Start	556	End	718
GI	none	Score	.97
Exons	556..718		

Seq. No.	21197	Seq. ID	OJ990827_09.0103.C57
Gene No.	44245	Strand	+
Start	270	End	2830
Name	OJ990827_09.0103.C57.o1.gp	Method	AAT/GAP
Start	270	End	1757
GI	42478_1.R1084	Score	821
Exons	270..401, 1118..1237, 1319..1444, 1662..1757		
GI Descrip.	'3080524/emb CAA18653  7.0e-39 (AL022599) hypothetical protein [Schizosaccharomyces pombe]'		

Seq. No.	21197	Seq. ID	OJ990827_09.0103.C57
Gene No.	44245	Strand	+
Start	270	End	2830
Name	OJ990827_09.0103.C57.o1.np	Method	AAT/NAP
Start	270	End	2830
GI	2194203	Score	358
Exons	270..401, 1118..1237, 1319..1444, 1661..1745, 1850..1959, 2526..2637, 2798..2830		
GI Descrip.	(U78310) pescadillo [Homo sapiens] gi 5739569 gb AAD50516.1 AC005006_1 (AC005006) pescadillo [Homo sapiens]		

Seq. No.	21197	Seq. ID	OJ990827_09.0103.C57
Gene No.	44245	Strand	+
Start	270	End	2830
Name	OJ990827_09.0103.C57.o1.gs	Method	GENSCAN
Start	273	End	2619
GI	none	Score	.76
Exons	273..401, 1118..1237, 1319..1444, 1661..1745, 2526..2619		

Seq. No.	21197	Seq. ID	OJ990827_09.0103.C57
Gene No.	44246	Strand	+
Start	2754	End	2830
Name	OJ990827_09.0103.C57.o1.tc	Method	TBLASTX:Cress
Start	261	End	402
GI	none	Score	76
Exons	261..401, 276..401, 277..402		

Seq. No.	21197	Seq. ID	OJ990827_09.0103.C57
Gene No.	44246	Strand	+
Start	2754	End	2830
Name	OJ990827_09.0103.C57.o2.ts	Method	TBLASTX:Soybean
Start	264	End	1358
GI	none	Score	178
Exons	264..401, 271..423, 1068..1241, 1317..1358		

Seq. No.	21197	Seq. ID	OJ990827_09.0103.C57
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Gene No.	44246	Strand	+
Start	2754	End	2830
Name	OJ990827_09.0103.C57.o1.tm	Method	TBLASTX:Maize
Start	267	End	2792
GI	none	Score	229
Exons	267..401, 271..402, 272..406, 1074..1262, 1101..1241, 1316..1444, 1317..1445, 1321..1446, 1512..1592, 1655..1744, 1659..1754, 1659..1745, 1841..1903, 1847..1903, 1893..1958, 1894..1977, 2502..2618, 2506..2628, 2525..2614, 2760..2792		

Seq. No.	21197	Seq. ID	OJ990827_09.0103.C57
Gene No.	44246	Strand	+
Start	2754	End	2830
Name	OJ990827_09.0103.C57.o1.ts	Method	TBLASTX:Soybean
Start	1630	End	2618
GI	none	Score	69
Exons	1630..1737, 1661..1741, 1662..1754, 1662..1745, 1841..1891, 1894..1977, 2502..2618, 2531..2614		

Seq. No.	21197	Seq. ID	OJ990827_09.0103.C57
Gene No.	44246	Strand	+
Start	2754	End	2830
Name	OJ990827_09.0103.C57.o2.gp	Method	AAT/GAP
Start	2754	End	2830
GI	uC-osflcyp030g01b1	Score	135
Exons	2754..2830		
GI Descrip.	'2194203 2.0e-13 (U78310) pescadillo [Homo sapiens] >gi_5739569_gb_AAD50516.1_AC005006_1 (AC005006) pescadillo [Homo sapiens]'		

Seq. No.	21198	Seq. ID	OJ990827_09.0103.C58
Gene No.	44247	Strand	+
Start	769	End	889
Name	OJ990827_09.0103.C58.o1.gs	Method	GENSCAN
Start	769	End	889
GI	none	Score	.84
Exons	769..889		

Seq. No.	21199	Seq. ID	OJ990827_09.0103.C60
Gene No.	44248	Strand	+
Start	337	End	636
Name	OJ990827_09.0103.C60.o1.gs	Method	GENSCAN
Start	337	End	636
GI	none	Score	.85
Exons	337..636		

Seq. No.	21200	Seq. ID	OJ990827_09.0103.C61
Gene No.	44249	Strand	-
Start	1	End	2228
Name	OJ990827_09.0103.C61.o1.np	Method	AAT/NAP
Start	1	End	2228
GI	2506825	Score	1653
Exons	1..253, 333..640, 733..840, 937..1022, 1108..1443, 1545..1848, 2118..2228		
GI Descrip.	LIPOXYGENASE 1 gi 532572 (L35931) lipoxygenase 1 [Hordeum vulgare] gi 1094924 prf  2107185A lipoxygenase [Hordeum vulgare]		

Seq. No.	21200	Seq. ID	OJ990827_09.0103.C61
Gene No.	44249	Strand	-
Start	1	End	2228
Name	OJ990827_09.0103.C61.o1.tm	Method	TBLASTX:Maize
Start	1	End	1767
GI	none	Score	69
Exons	1..102, 2..103, 103..252, 104..253, 332..397, 440..502, 465..518, 563..643, 569..625, 704..838, 733..840, 937..1044, 938..1045, 1382..1444, 1561..1617, 1633..1713, 1708..1767		

Seq. No.	21200	Seq. ID	OJ990827_09.0103.C61
Gene No.	44249	Strand	-
Start	1	End	2228
Name	OJ990827_09.0103.C61.o1.ts	Method	TBLASTX:Soybean
Start	1	End	1800
GI	none	Score	144
Exons	1..252, 2..253, 332..535, 332..547, 333..548, 566..643, 587..643, 724..858, 740..856, 935..1012, 940..1032, 1109..1201, 1220..1297, 1289..1405, 1424..1444, 1546..1629, 1630..1707, 1708..1800		

Seq. No.	21200	Seq. ID	OJ990827_09.0103.C61
Gene No.	44249	Strand	-
Start	1	End	2228
Name	OJ990827_09.0103.C61.o1.tw	Method	TBLASTX:Wheat
Start	32	End	1265
GI	none	Score	225
Exons	32..253, 34..255, 34..252, 316..402, 331..414, 332..421, 333..410, 408..500, 413..499, 1107..1265		

Seq. No.	21200	Seq. ID	OJ990827_09.0103.C61
Gene No.	44249	Strand	-
Start	1	End	2228
Name	OJ990827_09.0103.C61.o1.tc	Method	TBLASTX:Cress
Start	33	End	1800
GI	none	Score	175
Exons	33..149, 34..252, 35..247, 332..415, 333..416, 404..550, 426..557, 566..643, 707..841, 724..843, 733..840, 935..1012, 940..1032, 967..1023, 1098..1400, 1109..1405, 1244..1402, 1403..1444, 1546..1626, 1627..1701, 1711..1800		

Seq. No.	21200	Seq. ID	OJ990827_09.0103.C61
Gene No.	44249	Strand	-
Start	1	End	2228
Name	OJ990827_09.0103.C61.o1.gs	Method	GENSCAN
Start	105	End	1764
GI	none	Score	.95
Exons	105..253, 333..640, 733..840, 937..1022, 1108..1443, 1545..1764		

Seq. No.	21200	Seq. ID	OJ990827_09.0103.C61
Gene No.	44249	Strand	-
Start	1	End	2228
Name	OJ990827_09.0103.C61.o2.tw	Method	TBLASTX:Wheat
Start	596	End	1032
GI	none	Score	47
Exons	596..643, 596..643, 733..837, 733..840, 734..859, 935..1018, 937..1023, 937..1032		

Seq. No.	21200	Seq. ID	OJ990827_09.0103.C61
Gene No.	44249	Strand	-
Start	1	End	2228
Name	OJ990827_09.0103.C61.o2.tm	Method	TBLASTX:Maize
Start	1108	End	1270
GI	none	Score	65
Exons	1108..1263, 1109..1267, 1109..1270		

Seq. No.	21201	Seq. ID	OJ990827_09.0103.C62
Gene No.	44250	Strand	-
Start	1	End	375
Name	OJ990827_09.0103.C62.o1.np	Method	AAT/NAP
Start	1	End	375
GI	126401	Score	108
Exons	1..85, 189..375		
GI Descrip.	LIPOXYGENASE L-2 gi 100690 pir  S23454 lipoxxygenase (EC 1.13.11.12) L-2 - rice gi 20267 emb CAA45738  (X64396) lipoxxygenase [Oryza sativa]		

Seq. No.	21202	Seq. ID	OJ990827_09.0103.C63
Gene No.	44251	Strand	
Start	312	End	621
Name	OJ990827_09.0103.C63.o1.tc	Method	TBLASTX:Cress
Start	312	End	587
GI	none	Score	82
Exons	312..587, 334..549		

Seq. No.	21202	Seq. ID	OJ990827_09.0103.C63
Gene No.	44251	Strand	
Start	312	End	621
Name	OJ990827_09.0103.C63.o1.tm	Method	TBLASTX:Maize
Start	312	End	621
GI	none	Score	71
Exons	312..593, 321..374, 322..621		

Seq. No.	21203	Seq. ID	OJ990827_09.0103.C64
Gene No.	44252	Strand	+
Start	1272	End	2048
Name	OJ990827_09.0103.C64.o1.gs	Method	GENSCAN
Start	1272	End	1878
GI	none	Score	.66
Exons	1272..1340, 1533..1709, 1788..1878		

Seq. No.	21203	Seq. ID	OJ990827_09.0103.C64
Gene No.	44252	Strand	+
Start	1272	End	2048
Name	OJ990827_09.0103.C64.o1.gp	Method	AAT/GAP
Start	1532	End	1878
GI	26021_1.R1084	Score	497
Exons	1532..1709, 1788..1878		
GI Descrip.	'4587562/gb AAD25793.1 AC006550_1 4.0e-60 (AC006550) Belongs to PF_00583 Acetyltransferase (GNAT) family. [Arabidopsis thaliana]'		

Seq. No.	21203	Seq. ID	OJ990827_09.0103.C64
Gene No.	44252	Strand	+

Start	1272	End	2048
Name	OJ990827_09.0103.C64.ol.tc	Method	TBLASTX:Cress
Start	1631	End	1886
GI	none	Score	121
Exons	1631..1708, 1632..1709, 1710..1886, 1788..1877		

Seq. No.	21203	Seq. ID	OJ990827_09.0103.C64
Gene No.	44252	Strand	+
Start	1272	End	2048
Name	OJ990827_09.0103.C64.ol.tm	Method	TBLASTX:Maize
Start	1631	End	1882
GI	none	Score	121
Exons	1631..1708, 1632..1709, 1788..1877, 1790..1882		

Seq. No.	21203	Seq. ID	OJ990827_09.0103.C64
Gene No.	44252	Strand	+
Start	1272	End	2048
Name	OJ990827_09.0103.C64.ol.ts	Method	TBLASTX:Soybean
Start	1631	End	1880
GI	none	Score	132
Exons	1631..1711, 1632..1712, 1779..1880, 1788..1880		

Seq. No.	21203	Seq. ID	OJ990827_09.0103.C64
Gene No.	44252	Strand	+
Start	1272	End	2048
Name	OJ990827_09.0103.C64.ol.np	Method	AAT/NAP
Start	1632	End	2048
GI	4587562	Score	213
Exons	1632..1709, 1788..1878, 1987..2048		
GI Descrip.	(AC006550) Belongs to PF 00583 Acetyltransferase (GNAT) family. [Arabidopsis thaliana]		

Seq. No.	21204	Seq. ID	OJ990827_09.0103.C65
Gene No.	44253	Strand	-
Start	188	End	3347
Name	OJ990827_09.0103.C65.ol.gs	Method	GENSCAN
Start	188	End	3347
GI	none	Score	.61
Exons	188..365, 926..1008, 1148..1459, 1538..1795, 1975..2156, 3320..3347		

Seq. No.	21204	Seq. ID	OJ990827_09.0103.C65
Gene No.	44253	Strand	-
Start	188	End	3347
Name	OJ990827_09.0103.C65.ol.tm	Method	TBLASTX:Maize
Start	769	End	2236
GI	none	Score	197
Exons	769..1008, 837..1031, 839..1015, 1143..1460, 1145..1459, 1261..1461, 1499..1786, 1536..1793, 1669..1857, 1759..2229, 1790..2236, 1799..2230		

Seq. No.	21204	Seq. ID	OJ990827_09.0103.C65
Gene No.	44253	Strand	-
Start	188	End	3347
Name	OJ990827_09.0103.C65.ol.tc	Method	TBLASTX:Cress
Start	838	End	2256
GI	none	Score	186

Exons 838..1008, 839..1033, 1140..1460, 1145..1459, 1290..1463,  
1499..1786, 1529..1735, 1536..1781, 1759..2229, 1799..2254,  
1862..2236, 1864..2256, 2037..2255

Seq. No.	21204	Seq. ID	OJ990827_09.0103.C65
Gene No.	44253	Strand	-
Start	188	End	3347
Name	OJ990827_09.0103.C65.o1.np	Method	AAT/NAP
Start	841	End	2229
GI	6685803	Score	1596
Exons	841..1008, 1148..1459, 1538..2229		
GI Descrip.	ADENYLOSUCCINATE SYNTHETASE PRECURSOR (IMP--ASPARTATE LIGASE) (ADSS) (AMPSASE) gi 1616659 (U49387) adenylosuccinate synthetase [Triticum aestivum]		

Seq. No.	21204	Seq. ID	OJ990827_09.0103.C65
Gene No.	44253	Strand	-
Start	188	End	3347
Name	OJ990827_09.0103.C65.o1.ts	Method	TBLASTX:Soybean
Start	1202	End	2255
GI	none	Score	101
Exons	1202..1345, 1224..1346, 1257..1349, 1346..1459, 1347..1460, 1499..1786, 1529..1732, 1536..1790, 1759..2229, 1862..2230, 1862..2236, 1965..2237, 1965..2255		

Seq. No.	21204	Seq. ID	OJ990827_09.0103.C65
Gene No.	44253	Strand	-
Start	188	End	3347
Name	OJ990827_09.0103.C65.o1.gp	Method	AAT/GAP
Start	1571	End	1979
GI	uC-osflcyp097c03b1	Score	738
Exons	1571..1979		
GI Descrip.	'1616659 3.0e-46 (U49387) adenylosuccinate synthetase [Triticum aestivum]'		

Seq. No.	21205	Seq. ID	OJ990827_09.0103.C66
Gene No.	44254	Strand	+
Start	28	End	385
Name	OJ990827_09.0103.C66.o1.gs	Method	GENSCAN
Start	28	End	385
GI	none	Score	.66
Exons	28..260, 280..385		

Seq. No.	21205	Seq. ID	OJ990827_09.0103.C66
Gene No.	44255	Strand	-
Start	862	End	1728
Name	OJ990827_09.0103.C66.o1.gp	Method	AAT/GAP
Start	614	End	1343
GI	24113_1.R1084	Score	992
Exons	614..951, 1166..1343		
GI Descrip.	'5803242/dbj AP000399.1 AP000399 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04'		

Seq. No.	21205	Seq. ID	OJ990827_09.0103.C66
Gene No.	44255	Strand	-
Start	862	End	1728
Name	OJ990827_09.0103.C66.o2.gs	Method	GENSCAN



Start	862	End	1716
GI	none	Score	.95
Exons	862..951, 1166..1432, 1506..1716		

Seq. No.	21205	Seq. ID	OJ990827_09.0103.C66
Gene No.	44255	Strand	-
Start	862	End	1728
Name	OJ990827_09.0103.C66.o1.np	Method	AAT/NAP
Start	868	End	1565
GI	3551251	Score	96
Exons	868..951, 1166..1360, 1497..1565		
GI Descrip.	(AB012705) 85 [Daucus carota]		

Seq. No.	21205	Seq. ID	OJ990827_09.0103.C66
Gene No.	44255	Strand	-
Start	862	End	1728
Name	OJ990827_09.0103.C66.o1.tm	Method	TBLASTX:Maize
Start	1160	End	1719
GI	none	Score	68
Exons	1160..1258, 1163..1267, 1180..1266, 1367..1396, 1373..1396, 1503..1718, 1504..1719		

Seq. No.	21205	Seq. ID	OJ990827_09.0103.C66
Gene No.	44255	Strand	-
Start	862	End	1728
Name	OJ990827_09.0103.C66.o1.tw	Method	TBLASTX:Wheat
Start	1190	End	1719
GI	none	Score	51
Exons	1190..1270, 1210..1242, 1217..1369, 1329..1370, 1526..1597, 1527..1718, 1536..1718, 1645..1719		

Seq. No.	21205	Seq. ID	OJ990827_09.0103.C66
Gene No.	44255	Strand	-
Start	862	End	1728
Name	OJ990827_09.0103.C66.o1.tc	Method	TBLASTX:Cress
Start	1587	End	1728
GI	none	Score	82
Exons	1587..1706, 1590..1718, 1594..1719, 1597..1728		

Seq. No.	21206	Seq. ID	OJ990827_09.0103.C67
Gene No.	44256	Strand	-
Start	416	End	550
Name	OJ990827_09.0103.C67.o1.gs	Method	GENSCAN
Start	416	End	550
GI	none	Score	.68
Exons	416..550		

Seq. No.	21207	Seq. ID	OJ990827_09.0103.C69
Gene No.	44257	Strand	+
Start	686	End	840
Name	OJ990827_09.0103.C69.o1.gp	Method	AAT/GAP
Start	686	End	762
GI	26021.1.R1084	Score	105
Exons	686..762		
GI Descrip.	'4587562/gb AAD25793.1 AC006550_1 4.0e-60 (AC006550) Belongs to PF_00583 Acetyltransferase (GNAT) family. [Arabidopsis thaliana]'		

Seq. No.	21207	Seq. ID	OJ990827_09.0103.C69
Gene No.	44257	Strand	+
Start	686	End	840
Name	OJ990827_09.0103.C69.ol.gs	Method	GENSCAN
Start	686	End	755
GI	none	Score	.85
Exons	686..755		
Seq. No.	21207	Seq. ID	OJ990827_09.0103.C69
Gene No.	44257	Strand	+
Start	686	End	840
Name	OJ990827_09.0103.C69.ol.np	Method	AAT/NAP
Start	686	End	840
GI	4587562	Score	56
Exons	686..840		
GI Descrip.	(AC006550) Belongs to PF 00583 Acetyltransferase (GNAT) family. [Arabidopsis thaliana]		
Seq. No.	21208	Seq. ID	OJ990827_09.0103.C70
Gene No.	44258	Strand	-
Start	997	End	2114
Name	OJ990827_09.0103.C70.ol.gs	Method	GENSCAN
Start	997	End	2114
GI	none	Score	.87
Exons	997..1419, 2073..2114		
Seq. No.	21209	Seq. ID	OJ990827_09.0103.C71
Gene No.	44259	Strand	-
Start	1	End	662
Name	OJ990827_09.0103.C71.ol.np	Method	AAT/NAP
Start	1	End	662
GI	3025299	Score	254
Exons	1..22, 276..401, 519..662		
GI Descrip.	HYPOTHETICAL 62.3 KD PROTEIN T29M21.25 gi 2088660 gb AAB95294.1  (AF002109) putative ABC transporter [Arabidopsis thaliana]		
Seq. No.	21209	Seq. ID	OJ990827_09.0103.C71
Gene No.	44259	Strand	-
Start	1	End	662
Name	OJ990827_09.0103.C71.ol.gs	Method	GENSCAN
Start	123	End	578
GI	none	Score	.68
Exons	123..401, 456..578		
Seq. No.	21209	Seq. ID	OJ990827_09.0103.C71
Gene No.	44259	Strand	-
Start	1	End	662
Name	OJ990827_09.0103.C71.ol.tm	Method	TBLASTX:Maize
Start	274	End	402
GI	none	Score	187
Exons	274..402, 291..401		
Seq. No.	21210	Seq. ID	OJ990827_09.0103.C72
Gene No.	44260	Strand	-
Start	4	End	137
Name	OJ990827_09.0103.C72.ol.gs	Method	GENSCAN

Start	4	End	137
GI	none	Score	.75
Exons	4..137		
Seq. No.	21211	Seq. ID	OJ990827_09.0103.C73
Gene No.	44261	Strand	+
Start	1	End	420
Name	OJ990827_09.0103.C73.o1.np	Method	AAT/NAP
Start	1	End	420
GI	130997	Score	49
Exons	1..420		
GI Descrip.	REPETITIVE PROLINE-RICH CELL WALL PROTEIN 1 PRECURSOR gi 81809 pir  A29324 proline-rich protein precursor - soybean gi 170049 (J02746) proline-rich protein [Glycine max]		
Seq. No.	21212	Seq. ID	OJ990827_09.0103.C74
Gene No.	44262	Strand	-
Start	1	End	1331
Name	OJ990827_09.0103.C74.o1.gp	Method	AAT/GAP
Start	1	End	430
GI	21315_1.R1084	Score	808
Exons	1..430		
GI Descrip.	'2832683/emb CAA16783.1  1.0e-102 (AL021712) putative protein [Arabidopsis thaliana]'		
Seq. No.	21212	Seq. ID	OJ990827_09.0103.C74
Gene No.	44262	Strand	-
Start	1	End	1331
Name	OJ990827_09.0103.C74.o1.np	Method	AAT/NAP
Start	1	End	1331
GI	2832683	Score	559
Exons	1..492, 1303..1331		
GI Descrip.	(AL021712) putative protein [Arabidopsis thaliana]		
Seq. No.	21212	Seq. ID	OJ990827_09.0103.C74
Gene No.	44262	Strand	-
Start	1	End	1331
Name	OJ990827_09.0103.C74.o1.tm	Method	TBLASTX:Maize
Start	1	End	492
GI	none	Score	451
Exons	1..492, 2..430		
Seq. No.	21212	Seq. ID	OJ990827_09.0103.C74
Gene No.	44262	Strand	-
Start	1	End	1331
Name	OJ990827_09.0103.C74.o2.tc	Method	TBLASTX:Cress
Start	1	End	165
GI	none	Score	114
Exons	1..165, 2..163		
Seq. No.	21212	Seq. ID	OJ990827_09.0103.C74
Gene No.	44262	Strand	-
Start	1	End	1331
Name	OJ990827_09.0103.C74.o1.gs	Method	GENSCAN
Start	92	End	192
GI	none	Score	.46
Exons	92..192		

Seq. No.	21212	Seq. ID	OJ990827_09.0103.C74
Gene No.	44262	Strand	-
Start	1	End	1331
Name	OJ990827_09.0103.C74.o1.ts	Method	TBLASTX:Soybean
Start	160	End	492
GI	none	Score	56
Exons	160..492, 164..265, 169..426, 291..428		

Seq. No.	21212	Seq. ID	OJ990827_09.0103.C74
Gene No.	44262	Strand	-
Start	1	End	1331
Name	OJ990827_09.0103.C74.o1.tc	Method	TBLASTX:Cress
Start	166	End	440
GI	none	Score	63
Exons	166..426, 170..265, 184..426, 207..440		

Seq. No.	21213	Seq. ID	OJ990827_09.0103.C75
Gene No.	44263	Strand	+
Start	5	End	226
Name	OJ990827_09.0103.C75.o1.gs	Method	GENSCAN
Start	5	End	226
GI	none	Score	.54
Exons	5..226		

Seq. No.	21213	Seq. ID	OJ990827_09.0103.C75
Gene No.	44264	Strand	+
Start	292	End	397
Name	OJ990827_09.0103.C75.o1.gp	Method	AAT/GAP
Start	292	End	397
GI	21315_1.R1084	Score	162
Exons	292..397		
GI Descrip.	'2832683/emb CAA16783.1  1.0e-102 (AL021712) putative protein [Arabidopsis thaliana]'		

Seq. No.	21214	Seq. ID	OJ990827_09.0103.C76
Gene No.	44265	Strand	-
Start	147	End	441
Name	OJ990827_09.0103.C76.o1.gs	Method	GENSCAN
Start	147	End	441
GI	none	Score	.66
Exons	147..153, 194..441		

Seq. No.	21215	Seq. ID	OJ990827_01.0103.C1
Gene No.	44266	Strand	+
Start	891	End	6377
Name	OJ990827_01.0103.C1.o1.np	Method	AAT/NAP
Start	891	End	1682
GI	4512231	Score	1268
Exons	891..1682		
GI Descrip.	(AB014741) ORF0 protein [Oryza sativa]		

Seq. No.	21215	Seq. ID	OJ990827_01.0103.C1
Gene No.	44266	Strand	+
Start	891	End	6377
Name	OJ990827_01.0103.C1.o2.np	Method	AAT/NAP
Start	1361	End	6377

GI 4680179 Score 5698  
 Exons 1361..1406, 1953..6377  
 GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. No.	21215	Seq. ID	OJ990827_01.0103.C1
Gene No.	44267	Strand	-
Start	6597	End	7061
Name	OJ990827_01.0103.C1.o9.tw	Method	TBLASTX:Wheat
Start	2120	End	2318
GI	none	Score	215
Exons	2120..2317, 2121..2318		

Seq. No.	21215	Seq. ID	OJ990827_01.0103.C1
Gene No.	44267	Strand	-
Start	6597	End	7061
Name	OJ990827_01.0103.C1.o6.tm	Method	TBLASTX:Maize
Start	2370	End	2675
GI	none	Score	246
Exons	2370..2675		

Seq. No.	21215	Seq. ID	OJ990827_01.0103.C1
Gene No.	44267	Strand	-
Start	6597	End	7061
Name	OJ990827_01.0103.C1.o7.tw	Method	TBLASTX:Wheat
Start	2370	End	2720
GI	none	Score	312
Exons	2370..2720		

Seq. No.	21215	Seq. ID	OJ990827_01.0103.C1
Gene No.	44267	Strand	-
Start	6597	End	7061
Name	OJ990827_01.0103.C1.o8.tw	Method	TBLASTX:Wheat
Start	3054	End	3407
GI	none	Score	256
Exons	3054..3407		

Seq. No.	21215	Seq. ID	OJ990827_01.0103.C1
Gene No.	44267	Strand	-
Start	6597	End	7061
Name	OJ990827_01.0103.C1.o7.tm	Method	TBLASTX:Maize
Start	3411	End	3604
GI	none	Score	188
Exons	3411..3602, 3449..3604		

Seq. No.	21215	Seq. ID	OJ990827_01.0103.C1
Gene No.	44267	Strand	-
Start	6597	End	7061
Name	OJ990827_01.0103.C1.o4.tw	Method	TBLASTX:Wheat
Start	3539	End	4023
GI	none	Score	535
Exons	3539..3979, 3540..4022, 3543..4019, 3649..4023		

Seq. No.	21215	Seq. ID	OJ990827_01.0103.C1
Gene No.	44267	Strand	-
Start	6597	End	7061
Name	OJ990827_01.0103.C1.o4.ts	Method	TBLASTX:Soybean
Start	3576	End	3890

GI	none	Score	198
Exons	3576..3890		
Seq. No.	21215	Seq. ID	OJ990827_01.0103.C1
Gene No.	44267	Strand	-
Start	6597	End	7061
Name	OJ990827_01.0103.C1.o4.tm	Method	TBLASTX:Maize
Start	3605	End	4052
GI	none	Score	373
Exons	3605..4042, 3609..4052		
Seq. No.	21215	Seq. ID	OJ990827_01.0103.C1
Gene No.	44267	Strand	-
Start	6597	End	7061
Name	OJ990827_01.0103.C1.o1.ts	Method	TBLASTX:Soybean
Start	3963	End	4358
GI	none	Score	57
Exons	3963..3995, 3963..3995, 3999..4052, 4001..4042, 4107..4358, 4115..4348		
Seq. No.	21215	Seq. ID	OJ990827_01.0103.C1
Gene No.	44267	Strand	-
Start	6597	End	7061
Name	OJ990827_01.0103.C1.o5.tm	Method	TBLASTX:Maize
Start	4107	End	4439
GI	none	Score	302
Exons	4107..4439, 4160..4438		
Seq. No.	21215	Seq. ID	OJ990827_01.0103.C1
Gene No.	44267	Strand	-
Start	6597	End	7061
Name	OJ990827_01.0103.C1.o5.tw	Method	TBLASTX:Wheat
Start	4110	End	4373
GI	none	Score	367
Exons	4110..4373, 4112..4372		
Seq. No.	21215	Seq. ID	OJ990827_01.0103.C1
Gene No.	44267	Strand	-
Start	6597	End	7061
Name	OJ990827_01.0103.C1.o3.tw	Method	TBLASTX:Wheat
Start	4374	End	4799
GI	none	Score	603
Exons	4374..4799, 4376..4792, 4449..4799		
Seq. No.	21215	Seq. ID	OJ990827_01.0103.C1
Gene No.	44267	Strand	-
Start	6597	End	7061
Name	OJ990827_01.0103.C1.o3.ts	Method	TBLASTX:Soybean
Start	4383	End	4628
GI	none	Score	204
Exons	4383..4628		
Seq. No.	21215	Seq. ID	OJ990827_01.0103.C1
Gene No.	44267	Strand	-
Start	6597	End	7061
Name	OJ990827_01.0103.C1.o2.tm	Method	TBLASTX:Maize
Start	4446	End	4799

GI	none	Score	463
Exons	4446..4799, 4451..4792		
Seq. No.	21215	Seq. ID	OJ990827_01.0103.C1
Gene No.	44267	Strand	-
Start	6597	End	7061
Name	OJ990827_01.0103.C1.o2.tw	Method	TBLASTX:Wheat
Start	4827	End	5366
GI	none	Score	634
Exons	4827..5366, 5009..5362		
Seq. No.	21215	Seq. ID	OJ990827_01.0103.C1
Gene No.	44267	Strand	-
Start	6597	End	7061
Name	OJ990827_01.0103.C1.o1.tc	Method	TBLASTX:Cress
Start	5064	End	5390
GI	none	Score	89
Exons	5064..5246, 5247..5390, 5249..5389		
Seq. No.	21215	Seq. ID	OJ990827_01.0103.C1
Gene No.	44267	Strand	-
Start	6597	End	7061
Name	OJ990827_01.0103.C1.o2.ts	Method	TBLASTX:Soybean
Start	5154	End	5414
GI	none	Score	300
Exons	5154..5414, 5165..5413		
Seq. No.	21215	Seq. ID	OJ990827_01.0103.C1
Gene No.	44267	Strand	-
Start	6597	End	7061
Name	OJ990827_01.0103.C1.o3.tm	Method	TBLASTX:Maize
Start	5212	End	5504
GI	none	Score	411
Exons	5212..5499, 5213..5500, 5214..5504		
Seq. No.	21215	Seq. ID	OJ990827_01.0103.C1
Gene No.	44267	Strand	-
Start	6597	End	7061
Name	OJ990827_01.0103.C1.o1.tw	Method	TBLASTX:Wheat
Start	5373	End	5999
GI	none	Score	723
Exons	5373..5999, 5432..5878, 5939..5998		
Seq. No.	21215	Seq. ID	OJ990827_01.0103.C1
Gene No.	44267	Strand	-
Start	6597	End	7061
Name	OJ990827_01.0103.C1.o1.tm	Method	TBLASTX:Maize
Start	5552	End	6137
GI	none	Score	229
Exons	5552..5707, 5553..5714, 5711..5875, 5712..6137, 5939..6136		
Seq. No.	21215	Seq. ID	OJ990827_01.0103.C1
Gene No.	44267	Strand	-
Start	6597	End	7061
Name	OJ990827_01.0103.C1.o6.tw	Method	TBLASTX:Wheat
Start	5999	End	6332
GI	none	Score	318

Exons 5999..6280, 6000..6332

Seq. No.	21215	Seq. ID	OJ990827_01.0103.C1
Gene No.	44267	Strand	-
Start	6597	End	7061
Name	OJ990827_01.0103.C1.o2.gs	Method	GENSCAN
Start	6597	End	7061
GI	none	Score	.44
Exons	6597..7061		

Seq. No.	21216	Seq. ID	OJ990827_01.0103.C2
Gene No.	44268	Strand	-
Start	981	End	6102
Name	OJ990827_01.0103.C2.o1.gs	Method	GENSCAN
Start	981	End	3894
GI	none	Score	.64
Exons	981..1037, 2270..2455, 2667..2780, 3301..3651, 3790..3894		

Seq. No.	21216	Seq. ID	OJ990827_01.0103.C2
Gene No.	44268	Strand	-
Start	981	End	6102
Name	OJ990827_01.0103.C2.o1.np	Method	AAT/NAP
Start	2387	End	6102
GI	5042454	Score	218
Exons	2387..2440, 2667..2780, 5795..5853, 6040..6102		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	21217	Seq. ID	OJ990827_01.0103.C3
Gene No.	44269	Strand	+
Start	716	End	4014
Name	OJ990827_01.0103.C3.o1.gs	Method	GENSCAN
Start	716	End	4014
GI	none	Score	.47
Exons	716..769, 971..1977, 2073..2991, 3095..3659, 3683..4014		

Seq. No.	21217	Seq. ID	OJ990827_01.0103.C3
Gene No.	44269	Strand	+
Start	716	End	4014
Name	OJ990827_01.0103.C3.o1.np	Method	AAT/NAP
Start	716	End	4011
GI	5803259	Score	4998
Exons	716..1977, 2073..2302, 2345..4011		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	21217	Seq. ID	OJ990827_01.0103.C3
Gene No.	44270	Strand	-
Start	4022	End	4485
Name	OJ990827_01.0103.C3.o1.gp	Method	AAT/GAP
Start	4022	End	4485
GI	2428323	Score	806
Exons	4022..4485		
GI Descrip.	5803242/dbj AP000399.1 AP000399 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04		

Seq. No.	21217	Seq. ID	OJ990827_01.0103.C3
Gene No.	44271	Strand	-
Start	4648	End	11733



Name OJ990827\_01.0103.C3.o2.np Method AAT/NAP  
 Start 4648 End 10303  
 GI 6498441 Score 6896  
 Exons 4648..4929, 5023..6420, 6592..6974, 7167..7507, 7682..7816,  
 8000..8373, 8437..8900, 9231..10303  
 GI Descrip. (AP000815) EST C72786(E2258) corresponds to a region of the  
 predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type  
 retrotransposon RetroSor1. (AF098806) [Oryza sativa]

Seq. No. 21217 Seq. ID OJ990827\_01.0103.C3  
 Gene No. 44271 Strand -  
 Start 4648 End 11733  
 Name OJ990827\_01.0103.C3.o7.tw Method TBLASTX:Wheat  
 Start 4660 End 5259  
 GI none Score 81  
 Exons 4660..4782, 4661..4783, 4949..5119, 4975..5259, 4976..5119,  
 5156..5254, 5184..5255

Seq. No. 21217 Seq. ID OJ990827\_01.0103.C3  
 Gene No. 44271 Strand -  
 Start 4648 End 11733  
 Name OJ990827\_01.0103.C3.o4.tw Method TBLASTX:Wheat  
 Start 5260 End 5641  
 GI none Score 169  
 Exons 5260..5640, 5291..5539, 5299..5544, 5585..5641

Seq. No. 21217 Seq. ID OJ990827\_01.0103.C3  
 Gene No. 44271 Strand -  
 Start 4648 End 11733  
 Name OJ990827\_01.0103.C3.o2.tm Method TBLASTX:Maize  
 Start 5416 End 5778  
 GI none Score 204  
 Exons 5416..5463, 5455..5778, 5468..5749

Seq. No. 21217 Seq. ID OJ990827\_01.0103.C3  
 Gene No. 44271 Strand -  
 Start 4648 End 11733  
 Name OJ990827\_01.0103.C3.o8.tw Method TBLASTX:Wheat  
 Start 5971 End 6283  
 GI none Score 65  
 Exons 5971..6231, 6107..6283

Seq. No. 21217 Seq. ID OJ990827\_01.0103.C3  
 Gene No. 44271 Strand -  
 Start 4648 End 11733  
 Name OJ990827\_01.0103.C3.o5.tw Method TBLASTX:Wheat  
 Start 6286 End 9754  
 GI none Score 87  
 Exons 6286..6435, 6287..6424, 6469..6720, 6479..6721, 9701..9754

Seq. No. 21217 Seq. ID OJ990827\_01.0103.C3  
 Gene No. 44271 Strand -  
 Start 4648 End 11733  
 Name OJ990827\_01.0103.C3.o1.ts Method TBLASTX:Soybean  
 Start 7345 End 7716  
 GI none Score 93  
 Exons 7345..7716, 7556..7699

Seq. No. 21217  
 Gene No. 44271  
 Start 4648  
 Name OJ990827\_01.0103.C3.o2.tw  
 Start 7375  
 GI none  
 Exons 7375..7794, 7382..7795

Seq. ID OJ990827\_01.0103.C3  
 Strand -  
 End 11733  
 Method TBLASTX:Wheat  
 End 7795  
 Score 312

Seq. No. 21217  
 Gene No. 44271  
 Start 4648  
 Name OJ990827\_01.0103.C3.o3.tm  
 Start 7468  
 GI none  
 Exons 7468..7851, 7487..7852

Seq. ID OJ990827\_01.0103.C3  
 Strand -  
 End 11733  
 Method TBLASTX:Maize  
 End 7852  
 Score 239

Seq. No. 21217  
 Gene No. 44271  
 Start 4648  
 Name OJ990827\_01.0103.C3.o1.tm  
 Start 7879  
 GI none  
 Exons 7879..8184, 7879..8235, 7889..8200

Seq. ID OJ990827\_01.0103.C3  
 Strand -  
 End 11733  
 Method TBLASTX:Maize  
 End 8235  
 Score 121

Seq. No. 21217  
 Gene No. 44271  
 Start 4648  
 Name OJ990827\_01.0103.C3.o1.tw  
 Start 7903  
 GI none  
 Exons 7903..8364, 7909..8364, 7910..8365, 7923..8366

Seq. ID OJ990827\_01.0103.C3  
 Strand -  
 End 11733  
 Method TBLASTX:Wheat  
 End 8366  
 Score 223

Seq. No. 21217  
 Gene No. 44271  
 Start 4648  
 Name OJ990827\_01.0103.C3.o2.ts  
 Start 7960  
 GI none  
 Exons 7960..8094, 8101..8325

Seq. ID OJ990827\_01.0103.C3  
 Strand -  
 End 11733  
 Method TBLASTX:Soybean  
 End 8325  
 Score 117

Seq. No. 21217  
 Gene No. 44271  
 Start 4648  
 Name OJ990827\_01.0103.C3.o3.gs  
 Start 8374  
 GI none  
 Exons 8374..9482, 9593..9856, 9953..10826, 10883..11104, 11316..11378

Seq. ID OJ990827\_01.0103.C3  
 Strand -  
 End 11733  
 Method GENSCAN  
 End 11378  
 Score .63

Seq. No. 21217  
 Gene No. 44271  
 Start 4648  
 Name OJ990827\_01.0103.C3.o3.tw  
 Start 8557  
 GI none  
 Exons 8557..8964, 8557..9015, 8879..9016

Seq. ID OJ990827\_01.0103.C3  
 Strand -  
 End 11733  
 Method TBLASTX:Wheat  
 End 9016  
 Score 112

Seq. No.	21217	Seq. ID	OJ990827_01.0103.C3
Gene No.	44271	Strand	-
Start	4648	End	11733
Name	OJ990827_01.0103.C3.o6.tw	Method	TBLASTX:Wheat
Start	9762	End	10154
GI	none	Score	96
Exons	9762..10019, 9796..10035, 10002..10100, 10003..10095, 10107..10154		

Seq. No.	21217	Seq. ID	OJ990827_01.0103.C3
Gene No.	44271	Strand	-
Start	4648	End	11733
Name	OJ990827_01.0103.C3.o4.tm	Method	TBLASTX:Maize
Start	9864	End	10149
GI	none	Score	107
Exons	9864..10112, 9865..10149		

Seq. No.	21217	Seq. ID	OJ990827_01.0103.C3
Gene No.	44271	Strand	-
Start	4648	End	11733
Name	OJ990827_01.0103.C3.o3.np	Method	AAT/NAP
Start	11036	End	11733
GI	5042454	Score	262
Exons	11036..11089, 11316..11488, 11675..11733		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	21218	Seq. ID	OJ990827_01.0103.C4
Gene No.	44272	Strand	-
Start	1101	End	2688
Name	OJ990827_01.0103.C4.o1.gs	Method	GENSCAN
Start	1101	End	2688
GI	none	Score	.44
Exons	1101..1514, 1589..1722, 2079..2134, 2660..2688		

Seq. No.	21218	Seq. ID	OJ990827_01.0103.C4
Gene No.	44273	Strand	-
Start	3684	End	4390
Name	OJ990827_01.0103.C4.o1.tm	Method	TBLASTX:Maize
Start	1041	End	1681
GI	none	Score	281
Exons	1041..1394, 1095..1565, 1096..1563, 1461..1583, 1566..1673, 1574..1681		

Seq. No.	21218	Seq. ID	OJ990827_01.0103.C4
Gene No.	44273	Strand	-
Start	3684	End	4390
Name	OJ990827_01.0103.C4.o1.ts	Method	TBLASTX:Soybean
Start	1113	End	1529
GI	none	Score	122
Exons	1113..1394, 1113..1517, 1144..1518, 1461..1529		

Seq. No.	21218	Seq. ID	OJ990827_01.0103.C4
Gene No.	44273	Strand	-
Start	3684	End	4390
Name	OJ990827_01.0103.C4.o2.gs	Method	GENSCAN
Start	3684	End	4390
GI	none	Score	.99

Exons 3684..3815, 4379..4390

Seq. No.	21219	Seq. ID	OJ990827_01.0103.C5
Gene No.	44274	Strand	+
Start	141	End	5279
Name	OJ990827_01.0103.C5.o1.gs	Method	GENSCAN
Start	141	End	5279
GI	none	Score	.54
Exons	141..222, 953..1167, 1363..1388, 4212..4817, 5263..5279		

Seq. No.	21219	Seq. ID	OJ990827_01.0103.C5
Gene No.	44274	Strand	+
Start	141	End	5279
Name	OJ990827_01.0103.C5.o1.gp	Method	AAT/GAP
Start	3971	End	4374
GI	LIB3474-004-P1-K1-D11	Score	733
Exons	3971..4374		
GI Descrip.	'5803242/dbj AP000399.1 AP000399 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04'		

Seq. No.	21219	Seq. ID	OJ990827_01.0103.C5
Gene No.	44275	Strand	+
Start	8989	End	10894
Name	OJ990827_01.0103.C5.o1.np	Method	AAT/NAP
Start	8989	End	10891
GI	6907087	Score	1100
Exons	8989..9366, 9576..10239, 10790..10891		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	21219	Seq. ID	OJ990827_01.0103.C5
Gene No.	44275	Strand	+
Start	8989	End	10894
Name	OJ990827_01.0103.C5.o3.gs	Method	GENSCAN
Start	8989	End	10894
GI	none	Score	.82
Exons	8989..9609, 9619..10239, 10790..10894		

Seq. No.	21219	Seq. ID	OJ990827_01.0103.C5
Gene No.	44276	Strand	+
Start	11465	End	14337
Name	OJ990827_01.0103.C5.o4.gs	Method	GENSCAN
Start	11465	End	14337
GI	none	Score	.44
Exons	11465..11530, 12988..14337		

Seq. No.	21219	Seq. ID	OJ990827_01.0103.C5
Gene No.	44277	Strand	-
Start	5950	End	7671
Name	OJ990827_01.0103.C5.o2.gs	Method	GENSCAN
Start	5950	End	7671
GI	none	Score	.73
Exons	5950..6078, 7121..7294, 7525..7671		

Seq. No.	21219	Seq. ID	OJ990827_01.0103.C5
Gene No.	44278	Strand	-

Start	11288	End	11492
Name	OJ990827_01.0103.C5.o2.np	Method	AAT/NAP
Start	11288	End	11492
GI	4680186	Score	163
Exons	11288..11492		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	21219	Seq. ID	OJ990827_01.0103.C5
Gene No.	44279	Strand	-
Start	14938	End	15122
Name	OJ990827_01.0103.C5.o1.ts	Method	TBLASTX:Soybean
Start	132	End	1171
GI	none	Score	123
Exons	132..224, 139..228, 952..1170, 953..1171, 1007..1168		

Seq. No.	21219	Seq. ID	OJ990827_01.0103.C5
Gene No.	44279	Strand	-
Start	14938	End	15122
Name	OJ990827_01.0103.C5.o2.ts	Method	TBLASTX:Soybean
Start	4616	End	4953
GI	none	Score	132
Exons	4616..4723, 4627..4722, 4816..4953, 4816..4953		

Seq. No.	21219	Seq. ID	OJ990827_01.0103.C5
Gene No.	44279	Strand	-
Start	14938	End	15122
Name	OJ990827_01.0103.C5.o1.tw	Method	TBLASTX:Wheat
Start	13210	End	13569
GI	none	Score	277
Exons	13210..13569, 13212..13565		

Seq. No.	21219	Seq. ID	OJ990827_01.0103.C5
Gene No.	44279	Strand	-
Start	14938	End	15122
Name	OJ990827_01.0103.C5.o1.tm	Method	TBLASTX:Maize
Start	13450	End	13749
GI	none	Score	219
Exons	13450..13749, 13464..13553		

Seq. No.	21219	Seq. ID	OJ990827_01.0103.C5
Gene No.	44279	Strand	-
Start	14938	End	15122
Name	OJ990827_01.0103.C5.o5.gs	Method	GENSCAN
Start	14938	End	15122
GI	none	Score	.55
Exons	14938..15122		

Seq. No.	21220	Seq. ID	OJ990827_01.0103.C6
Gene No.	44280	Strand	+
Start	242	End	308
Name	OJ990827_01.0103.C6.o1.gs	Method	GENSCAN
Start	242	End	308
GI	none	Score	.59
Exons	242..308		

Seq. No.	21220	Seq. ID	OJ990827_01.0103.C6
Gene No.	44281	Strand	+

Start	1022	End	4258
Name	OJ990827_01.0103.C6.o1.np	Method	AAT/NAP
Start	1022	End	4255
GI	5803259	Score	4324
Exons	1022..2283, 2383..4255		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	21220	Seq. ID	OJ990827_01.0103.C6
Gene No.	44281	Strand	+
Start	1022	End	4258
Name	OJ990827_01.0103.C6.o2.gs	Method	GENSCAN
Start	1022	End	4258
GI	none	Score	.86
Exons	1022..1151, 1218..2283, 2383..4258		

Seq. No.	21220	Seq. ID	OJ990827_01.0103.C6
Gene No.	44282	Strand	-
Start	4905	End	8629
Name	OJ990827_01.0103.C6.o3.gs	Method	GENSCAN
Start	4905	End	8351
GI	none	Score	.92
Exons	4905..8351		

Seq. No.	21220	Seq. ID	OJ990827_01.0103.C6
Gene No.	44282	Strand	-
Start	4905	End	8629
Name	OJ990827_01.0103.C6.o2.np	Method	AAT/NAP
Start	4908	End	8629
GI	6498441	Score	4159
Exons	4908..5189, 5283..6680, 6852..7253, 7446..7766, 7941..8076, 8260..8629		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	21220	Seq. ID	OJ990827_01.0103.C6
Gene No.	44282	Strand	-
Start	4905	End	8629
Name	OJ990827_01.0103.C6.o4.tm	Method	TBLASTX:Maize
Start	4908	End	5048
GI	none	Score	126
Exons	4908..5048, 4909..5043		

Seq. No.	21220	Seq. ID	OJ990827_01.0103.C6
Gene No.	44282	Strand	-
Start	4905	End	8629
Name	OJ990827_01.0103.C6.o5.tw	Method	TBLASTX:Wheat
Start	4917	End	5519
GI	none	Score	67
Exons	4917..5042, 4921..5043, 5229..5519, 5236..5514		

Seq. No.	21220	Seq. ID	OJ990827_01.0103.C6
Gene No.	44282	Strand	-
Start	4905	End	8629
Name	OJ990827_01.0103.C6.o2.tw	Method	TBLASTX:Wheat
Start	5520	End	5901
GI	none	Score	164

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Exons 5520..5900, 5551..5799, 5646..5897, 5845..5901

Seq. No.	21220	Seq. ID	OJ990827_01.0103.C6
Gene No.	44282	Strand	-
Start	4905	End	8629
Name	OJ990827_01.0103.C6.o1.tm	Method	TBLASTX:Maize
Start	5715	End	6038
GI	none	Score	198
Exons	5715..6038, 5728..6009		

Seq. No.	21220	Seq. ID	OJ990827_01.0103.C6
Gene No.	44282	Strand	-
Start	4905	End	8629
Name	OJ990827_01.0103.C6.o6.tw	Method	TBLASTX:Wheat
Start	6231	End	6543
GI	none	Score	67
Exons	6231..6491, 6367..6543		

Seq. No.	21220	Seq. ID	OJ990827_01.0103.C6
Gene No.	44282	Strand	-
Start	4905	End	8629
Name	OJ990827_01.0103.C6.o2.ts	Method	TBLASTX:Soybean
Start	6291	End	6857
GI	5666795	Score	68
Exons	6291..6491, 6546..6683, 6759..6857		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	21220	Seq. ID	OJ990827_01.0103.C6
Gene No.	44282	Strand	-
Start	4905	End	8629
Name	OJ990827_01.0103.C6.o3.tw	Method	TBLASTX:Wheat
Start	6546	End	7004
GI	none	Score	80
Exons	6546..6695, 6547..6684, 6742..6915, 6756..7004, 6756..6980		

Seq. No.	21220	Seq. ID	OJ990827_01.0103.C6
Gene No.	44282	Strand	-
Start	4905	End	8629
Name	OJ990827_01.0103.C6.o1.ts	Method	TBLASTX:Soybean
Start	7605	End	7976
GI	none	Score	87
Exons	7605..7976, 7816..7959		

Seq. No.	21220	Seq. ID	OJ990827_01.0103.C6
Gene No.	44282	Strand	-
Start	4905	End	8629
Name	OJ990827_01.0103.C6.o1.tw	Method	TBLASTX:Wheat
Start	7630	End	8055
GI	none	Score	316
Exons	7630..8055, 7635..8054		

Seq. No.	21220	Seq. ID	OJ990827_01.0103.C6
Gene No.	44282	Strand	-
Start	4905	End	8629
Name	OJ990827_01.0103.C6.o2.tm	Method	TBLASTX:Maize
Start	7728	End	8112
GI	none	Score	227

Exons 7728..8111, 7747..8112

Seq. No.	21220	Seq. ID	OJ990827_01.0103.C6
Gene No.	44282	Strand	-
Start	4905	End	8629
Name	OJ990827_01.0103.C6.o3.tm	Method	TBLASTX:Maize
Start	8139	End	8355
GI	none	Score	109
Exons	8139..8351, 8139..8354, 8149..8355		

Seq. No.	21220	Seq. ID	OJ990827_01.0103.C6
Gene No.	44282	Strand	-
Start	4905	End	8629
Name	OJ990827_01.0103.C6.o4.tw	Method	TBLASTX:Wheat
Start	8163	End	8354
GI	none	Score	194
Exons	8163..8354, 8170..8346, 8190..8354		

Seq. No.	21221	Seq. ID	OJ990827_01.0103.C7
Gene No.	44283	Strand	+
Start	3493	End	12446
Name	OJ990827_01.0103.C7.o2.np	Method	AAT/NAP
Start	3493	End	12446
GI	5922623	Score	316
Exons	3493..3573, 3951..4098, 4267..4342, 12398..12446		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016856 dbj BAA85199.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	21221	Seq. ID	OJ990827_01.0103.C7
Gene No.	44283	Strand	+
Start	3493	End	12446
Name	OJ990827_01.0103.C7.o2.gs	Method	GENSCAN
Start	5120	End	6148
GI	none	Score	.75
Exons	5120..6148		

Seq. No.	21221	Seq. ID	OJ990827_01.0103.C7
Gene No.	44283	Strand	+
Start	3493	End	12446
Name	OJ990827_01.0103.C7.o3.gs	Method	GENSCAN
Start	9061	End	10348
GI	none	Score	.57
Exons	9061..9077, 9278..9344, 9500..9598, 9904..10039, 10242..10348		

Seq. No.	21221	Seq. ID	OJ990827_01.0103.C7
Gene No.	44284	Strand	-
Start	1	End	2907
Name	OJ990827_01.0103.C7.o1.np	Method	AAT/NAP
Start	1	End	2907
GI	6498441	Score	2972
Exons	1..429, 613..986, 1050..1513, 1844..2907		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	21221	Seq. ID	OJ990827_01.0103.C7
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Gene No. 44284  
 Start 1  
 Name OJ990827\_01.0103.C7.o4.tm  
 Start 270  
 GI none  
 Exons 270..464, 271..465

Strand -  
 End 2907  
 Method TBLASTX:Maize  
 End 465  
 Score 91

Seq. No. 21221  
 Gene No. 44284  
 Start 1  
 Name OJ990827\_01.0103.C7.o4.tw  
 Start 276  
 GI none  
 Exons 276..515, 277..507

Seq. ID OJ990827\_01.0103.C7  
 Strand -  
 End 2907  
 Method TBLASTX:Wheat  
 End 515  
 Score 142

Seq. No. 21221  
 Gene No. 44284  
 Start 1  
 Name OJ990827\_01.0103.C7.o1.tm  
 Start 492  
 GI none  
 Exons 492..761, 492..848, 502..813

Seq. ID OJ990827\_01.0103.C7  
 Strand -  
 End 2907  
 Method TBLASTX:Maize  
 End 848  
 Score 105

Seq. No. 21221  
 Gene No. 44284  
 Start 1  
 Name OJ990827\_01.0103.C7.o1.tw  
 Start 516  
 GI none  
 Exons 516..977, 517..978, 803..979

Seq. ID OJ990827\_01.0103.C7  
 Strand -  
 End 2907  
 Method TBLASTX:Wheat  
 End 979  
 Score 401

Seq. No. 21221  
 Gene No. 44284  
 Start 1  
 Name OJ990827\_01.0103.C7.o1.ts  
 Start 573  
 GI none  
 Exons 573..707, 714..938

Seq. ID OJ990827\_01.0103.C7  
 Strand -  
 End 2907  
 Method TBLASTX:Soybean  
 End 938  
 Score 117

Seq. No. 21221  
 Gene No. 44284  
 Start 1  
 Name OJ990827\_01.0103.C7.o2.tw  
 Start 1143  
 GI none  
 Exons 1143..1628, 1147..1434, 1456..1629

Seq. ID OJ990827\_01.0103.C7  
 Strand -  
 End 2907  
 Method TBLASTX:Wheat  
 End 1629  
 Score 172

Seq. No. 21221  
 Gene No. 44284  
 Start 1  
 Name OJ990827\_01.0103.C7.o3.tw  
 Start 2367  
 GI none  
 Exons 2367..2624, 2401..2640, 2607..2705, 2608..2688, 2712..2759

Seq. ID OJ990827\_01.0103.C7  
 Strand -  
 End 2907  
 Method TBLASTX:Wheat  
 End 2759  
 Score 89

Seq. No. 21221  
 Gene No. 44284

Seq. ID OJ990827\_01.0103.C7  
 Strand -

Start	1	End	2907
Name	OJ990827_01.0103.C7.o2.tm	Method	TBLASTX:Maize
Start	2469	End	2754
GI	none	Score	103
Exons	2469..2717, 2470..2754		

Seq. No.	21221	Seq. ID	OJ990827_01.0103.C7
Gene No.	44285	Strand	
Start	5285	End	5452
Name	OJ990827_01.0103.C7.o3.tm	Method	TBLASTX:Maize
Start	5285	End	5452
GI	none	Score	127
Exons	5285..5380, 5288..5380, 5307..5387, 5371..5451, 5372..5452		

Seq. No.	21222	Seq. ID	OJ990827_01.0103.C8
Gene No.	44286	Strand	+
Start	1537	End	4029
Name	OJ990827_01.0103.C8.o1.gp	Method	AAT/GAP
Start	1537	End	2809
GI	LIB3433-025-P1-K1-H10	Score	822
Exons	1537..1817, 2653..2809		
GI Descrip.	'4176420/dbj BAA37167  2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	21222	Seq. ID	OJ990827_01.0103.C8
Gene No.	44286	Strand	+
Start	1537	End	4029
Name	OJ990827_01.0103.C8.o1.np	Method	AAT/NAP
Start	2687	End	3892
GI	6850850	Score	1181
Exons	2687..3892		
GI Descrip.	(AL132962) putative protein [Arabidopsis thaliana]		

Seq. No.	21222	Seq. ID	OJ990827_01.0103.C8
Gene No.	44286	Strand	+
Start	1537	End	4029
Name	OJ990827_01.0103.C8.o2.gp	Method	AAT/GAP
Start	2987	End	3326
GI	286318	Score	658
Exons	2987..3326		

Seq. No.	21222	Seq. ID	OJ990827_01.0103.C8
Gene No.	44286	Strand	+
Start	1537	End	4029
Name	OJ990827_01.0103.C8.o3.gp	Method	AAT/GAP
Start	3482	End	4029
GI	3760665	Score	872
Exons	3482..4029		

Seq. No.	21222	Seq. ID	OJ990827_01.0103.C8
Gene No.	44287	Strand	+
Start	6892	End	7631
Name	OJ990827_01.0103.C8.o3.gs	Method	GENSCAN
Start	6892	End	7631
GI	none	Score	.74
Exons	6892..6894, 7042..7116, 7383..7631		

Seq. No.	21222	Seq. ID	OJ990827_01.0103.C8
Gene No.	44288	Strand	+
Start	14844	End	15996
Name	OJ990827_01.0103.C8.o4.gp	Method	AAT/GAP
Start	14780	End	15996
GI	27 1.R1084	Score	2434
Exons	14780..15996		
GI Descrip.	'2696231/dbj BAA23811  1.0e-158 (D55713) chitinase [Oryza sativa] >gi_4826582_dbj_BAA21743.2 (AB006188) acidic class III chitinase OsChib3a [Oryza sativa] >gi_4827249_dbj_BAA77605.1 (AB026998) acidic class III chitinase OsChib3a [Oryza sativa]'		

Seq. No.	21222	Seq. ID	OJ990827_01.0103.C8
Gene No.	44288	Strand	+
Start	14844	End	15996
Name	OJ990827_01.0103.C8.o3.np	Method	AAT/NAP
Start	14844	End	15746
GI	2696231	Score	1589
Exons	14844..15746		
GI Descrip.	(D55713) chitinase [Oryza sativa] gi 4826582 dbj BAA21743.2  (AB006188) acidic class III chitinase OsChib3a [Oryza sativa] gi 4827249 dbj BAA77605.1  (AB026998) acidic class III chitinase OsChib3a [Oryza sativa]		

Seq. No.	21222	Seq. ID	OJ990827_01.0103.C8
Gene No.	44288	Strand	+
Start	14844	End	15996
Name	OJ990827_01.0103.C8.o5.gs	Method	GENSCAN
Start	14844	End	15749
GI	none	Score	.99
Exons	14844..15749		

Seq. No.	21222	Seq. ID	OJ990827_01.0103.C8
Gene No.	44289	Strand	-
Start	1683	End	5487
Name	OJ990827_01.0103.C8.o2.np	Method	AAT/NAP
Start	1683	End	5487
GI	6721547	Score	99
Exons	1683..1778, 5380..5487		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		

Seq. No.	21222	Seq. ID	OJ990827_01.0103.C8
Gene No.	44289	Strand	-
Start	1683	End	5487
Name	OJ990827_01.0103.C8.o2.gs	Method	GENSCAN
Start	4243	End	4599
GI	none	Score	.6
Exons	4243..4599		

Seq. No.	21222	Seq. ID	OJ990827_01.0103.C8
Gene No.	44290	Strand	-
Start	8152	End	10115
Name	OJ990827_01.0103.C8.o4.gs	Method	GENSCAN
Start	8152	End	10115
GI	none	Score	.47
Exons	8152..8669, 9995..10115		

Seq. No.	21222	Seq. ID	OJ990827_01.0103.C8
Gene No.	44291	Strand	-
Start	15837	End	19958
Name	OJ990827_01.0103.C8.o1.ts	Method	TBLASTX:Soybean
Start	2809	End	3898
GI	none	Score	137
Exons	2809..2922, 2810..2929, 2930..3025, 2941..3024, 2982..3119, 3022..3423, 3023..3424, 3446..3886, 3511..3672, 3521..3898		
Seq. No.	21222	Seq. ID	OJ990827_01.0103.C8
Gene No.	44291	Strand	-
Start	15837	End	19958
Name	OJ990827_01.0103.C8.o2.tm	Method	TBLASTX:Maize
Start	2810	End	3231
GI	none	Score	474
Exons	2810..3100, 2812..3099, 3142..3231, 3152..3229		
Seq. No.	21222	Seq. ID	OJ990827_01.0103.C8
Gene No.	44291	Strand	-
Start	15837	End	19958
Name	OJ990827_01.0103.C8.o4.tm	Method	TBLASTX:Maize
Start	3259	End	3508
GI	none	Score	357
Exons	3259..3504, 3260..3508		
Seq. No.	21222	Seq. ID	OJ990827_01.0103.C8
Gene No.	44291	Strand	-
Start	15837	End	19958
Name	OJ990827_01.0103.C8.o3.tm	Method	TBLASTX:Maize
Start	3509	End	3898
GI	none	Score	518
Exons	3509..3886, 3511..3672, 3521..3898, 3742..3897		
Seq. No.	21222	Seq. ID	OJ990827_01.0103.C8
Gene No.	44291	Strand	-
Start	15837	End	19958
Name	OJ990827_01.0103.C8.o1.tw	Method	TBLASTX:Wheat
Start	3575	End	3924
GI	none	Score	486
Exons	3575..3895, 3575..3895, 3583..3906, 3730..3924		
Seq. No.	21222	Seq. ID	OJ990827_01.0103.C8
Gene No.	44291	Strand	-
Start	15837	End	19958
Name	OJ990827_01.0103.C8.o1.tm	Method	TBLASTX:Maize
Start	14844	End	15749
GI	none	Score	643
Exons	14844..15344, 14894..15334, 15347..15544, 15354..15749, 15519..15683, 15620..15748		
Seq. No.	21222	Seq. ID	OJ990827_01.0103.C8
Gene No.	44291	Strand	-
Start	15837	End	19958
Name	OJ990827_01.0103.C8.o2.ts	Method	TBLASTX:Soybean
Start	14912	End	15746
GI	none	Score	564
Exons	14912..15259, 14913..15362, 15371..15544, 15372..15542,		

15630..15746

Seq. No.	21222	Seq. ID	OJ990827_01.0103.C8
Gene No.	44291	Strand	-
Start	15837	End	19958
Name	OJ990827_01.0103.C8.o1.tc	Method	TBLASTX:Cress
Start	14921	End	15749
GI	none	Score	525
Exons	14921..15094, 14922..15365, 15125..15364, 15368..15544, 15369..15749		

Seq. No.	21222	Seq. ID	OJ990827_01.0103.C8
Gene No.	44291	Strand	-
Start	15837	End	19958
Name	OJ990827_01.0103.C8.o2.tw	Method	TBLASTX:Wheat
Start	15041	End	15284
GI	none	Score	299
Exons	15041..15259, 15042..15284		

Seq. No.	21222	Seq. ID	OJ990827_01.0103.C8
Gene No.	44291	Strand	-
Start	15837	End	19958
Name	OJ990827_01.0103.C8.o6.gs	Method	GENSCAN
Start	15837	End	19885
GI	none	Score	.65
Exons	15837..15868, 15915..16092, 16406..16566, 17927..17990, 18060..18152, 18840..18948, 19737..19885		

Seq. No.	21222	Seq. ID	OJ990827_01.0103.C8
Gene No.	44291	Strand	-
Start	15837	End	19958
Name	OJ990827_01.0103.C8.o5.gp	Method	AAT/GAP
Start	17690	End	18138
GI	3762449	Score	798
Exons	17690..18138		

Seq. No.	21222	Seq. ID	OJ990827_01.0103.C8
Gene No.	44291	Strand	-
Start	15837	End	19958
Name	OJ990827_01.0103.C8.o4.np	Method	AAT/NAP
Start	18042	End	19958
GI	2497540	Score	344
Exons	18042..18152, 18840..18948, 19737..19958		
GI Descrip.	PYRUVATE KINASE ISOZYME G, CHLOROPLAST		

Seq. No.	21222	Seq. ID	OJ990827_01.0103.C8
Gene No.	44291	Strand	-
Start	15837	End	19958
Name	OJ990827_01.0103.C8.o5.tm	Method	TBLASTX:Maize
Start	18042	End	19892
GI	none	Score	101
Exons	18042..18152, 18043..18171, 18045..18152, 18837..18947, 18840..18947, 18841..18948, 18841..18948, 18842..18949, 19736..19879, 19740..19892, 19743..19886		

Seq. No.	21222	Seq. ID	OJ990827_01.0103.C8
Gene No.	44291	Strand	-

Start	15837	End	19958
Name	OJ990827_01.0103.C8.o2.tc	Method	TBLASTX:Cress
Start	18045	End	19892
GI	none	Score	76
Exons	18045..18152, 18049..18162, 18840..18947, 18841..18936, 19736..19879, 19743..19892, 19743..19886		

Seq. No.	21222	Seq. ID	OJ990827_01.0103.C8
Gene No.	44291	Strand	-
Start	15837	End	19958
Name	OJ990827_01.0103.C8.o3.ts	Method	TBLASTX:Soybean
Start	18045	End	19890
GI	none	Score	75
Exons	18045..18170, 18049..18156, 18843..18947, 18853..18945, 19736..19879, 19740..19889, 19743..19886, 19744..19890		

Seq. No.	21223	Seq. ID	OJ990827_01.0103.C9
Gene No.	44292	Strand	+
Start	11173	End	11599
Name	OJ990827_01.0103.C9.o2.gp	Method	AAT/GAP
Start	11173	End	11599
GI	4878407	Score	680
Exons	11173..11599		
GI Descrip.	6069643/dbj AP000616.1 AP000616 1.0e-152 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12		

Seq. No.	21223	Seq. ID	OJ990827_01.0103.C9
Gene No.	44293	Strand	+
Start	25450	End	28344
Name	OJ990827_01.0103.C9.o6.gs	Method	GENSCAN
Start	25450	End	28344
GI	none	Score	.62
Exons	25450..25603, 25999..26046, 26941..27161, 28231..28344		

Seq. No.	21223	Seq. ID	OJ990827_01.0103.C9
Gene No.	44294	Strand	-
Start	95	End	27362
Name	OJ990827_01.0103.C9.o1.tm	Method	TBLASTX:Maize
Start	90	End	3465
GI	none	Score	123
Exons	90..203, 95..205, 104..229, 272..412, 276..407, 277..411, 1068..1247, 1079..1258, 1079..1249, 1609..1902, 1610..1897, 3330..3374, 3391..3465		

Seq. No.	21223	Seq. ID	OJ990827_01.0103.C9
Gene No.	44294	Strand	-
Start	95	End	27362
Name	OJ990827_01.0103.C9.o1.np	Method	AAT/NAP
Start	95	End	1813
GI	2497542	Score	763
Exons	95..204, 276..410, 1081..1246, 1609..1813		
GI Descrip.	PYRUVATE KINASE ISOZYME G, CHLOROPLAST PRECURSOR gi 629696 pir  S44287 pyruvate kinase, plastid - common tobacco gi 482938 emb CAA82223  (Z28374) Pyruvate kinase; plastid isozyme [Nicotiana tabacum]		

Seq. No.	21223	Seq. ID	OJ990827_01.0103.C9
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Gene No.	44294	Strand	-
Start	95	End	27362
Name	OJ990827_01.0103.C9.o1.ts	Method	TBLASTX:Soybean
Start	106	End	1665
GI	none	Score	95
Exons	106..222, 107..205, 107..229, 277..411, 278..412, 1028..1201, 1163..1249, 1173..1247, 1609..1665		

Seq. No.	21223	Seq. ID	OJ990827_01.0103.C9
Gene No.	44294	Strand	-
Start	95	End	27362
Name	OJ990827_01.0103.C9.o2.tc	Method	TBLASTX:Cress
Start	106	End	1141
GI	none	Score	110
Exons	106..201, 107..229, 108..188, 109..201, 276..410, 277..411, 278..412, 439..486, 1079..1141		

Seq. No.	21223	Seq. ID	OJ990827_01.0103.C9
Gene No.	44294	Strand	-
Start	95	End	27362
Name	OJ990827_01.0103.C9.o1.gs	Method	GENSCAN
Start	276	End	3532
GI	none	Score	.9
Exons	276..410, 1081..1246, 1609..1896, 3485..3532		

Seq. No.	21223	Seq. ID	OJ990827_01.0103.C9
Gene No.	44294	Strand	-
Start	95	End	27362
Name	OJ990827_01.0103.C9.o1.tc	Method	TBLASTX:Cress
Start	1142	End	1893
GI	none	Score	104
Exons	1142..1249, 1173..1247, 1607..1786, 1609..1809, 1613..1786, 1786..1887, 1786..1893		

Seq. No.	21223	Seq. ID	OJ990827_01.0103.C9
Gene No.	44294	Strand	-
Start	95	End	27362
Name	OJ990827_01.0103.C9.o3.ts	Method	TBLASTX:Soybean
Start	1672	End	1893
GI	none	Score	216
Exons	1672..1893, 1673..1840		

Seq. No.	21223	Seq. ID	OJ990827_01.0103.C9
Gene No.	44294	Strand	-
Start	95	End	27362
Name	OJ990827_01.0103.C9.o1.gp	Method	AAT/GAP
Start	3267	End	3645
GI	uC-osf1M202050h08b1	Score	673
Exons	3267..3645		
GI Descrip.	'6069643/dbj AP000616.1 AP000616 1.0e-152 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	21223	Seq. ID	OJ990827_01.0103.C9
Gene No.	44294	Strand	-
Start	95	End	27362
Name	OJ990827_01.0103.C9.o2.np	Method	AAT/NAP
Start	3273	End	9834

GI 6069654 Score 556  
 Exons 3273..3507, 7894..8229, 8280..8624, 8673..9834  
 GI Descrip. (AP000616) hypothetical protein [Oryza sativa]

Seq. No. 21223 Seq. ID OJ990827\_01.0103.C9  
 Gene No. 44294 Strand -  
 Start 95 End 27362  
 Name OJ990827\_01.0103.C9.o2.gs Method GENSCAN  
 Start 7246 End 19284  
 GI none Score .44  
 Exons 7246..7276, 7917..8198, 8335..8607, 8751..9536, 10516..10670,  
 10922..11161, 11163..11230, 11302..11463, 13683..13771,  
 14921..15049, 15237..15331, 17627..17788, 18049..18158,  
 18950..19114, 19116..19284

Seq. No. 21223 Seq. ID OJ990827\_01.0103.C9  
 Gene No. 44294 Strand -  
 Start 95 End 27362  
 Name OJ990827\_01.0103.C9.o4.np Method AAT/NAP  
 Start 14930 End 27362  
 GI 6523547 Score 290  
 Exons 14930..15111, 15379..15662, 19350..19375, 21143..21214,  
 24104..24396, 26873..26911, 26940..27185, 27271..27362  
 GI Descrip. (AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox  
 carteri f. nagariensis]

Seq. No. 21223 Seq. ID OJ990827\_01.0103.C9  
 Gene No. 44294 Strand -  
 Start 95 End 27362  
 Name OJ990827\_01.0103.C9.o2.tm Method TBLASTX:Maize  
 Start 20546 End 21021  
 GI none Score 68  
 Exons 20546..20689, 20548..20886, 20554..20892, 20896..20955,  
 20974..21021

Seq. No. 21223 Seq. ID OJ990827\_01.0103.C9  
 Gene No. 44294 Strand -  
 Start 95 End 27362  
 Name OJ990827\_01.0103.C9.o2.ts Method TBLASTX:Soybean  
 Start 20551 End 20956  
 GI none Score 106  
 Exons 20551..20865, 20551..20886, 20881..20955, 20900..20956

Seq. No. 21223 Seq. ID OJ990827\_01.0103.C9  
 Gene No. 44294 Strand -  
 Start 95 End 27362  
 Name OJ990827\_01.0103.C9.o4.gs Method GENSCAN  
 Start 22924 End 23703  
 GI none Score .95  
 Exons 22924..23089, 23573..23703

Seq. No. 21223 Seq. ID OJ990827\_01.0103.C9  
 Gene No. 44294 Strand -  
 Start 95 End 27362  
 Name OJ990827\_01.0103.C9.o3.np Method AAT/NAP  
 Start 22979 End 23165  
 GI 2809232 Score 140



Exons 22979..23165  
 GI Descrip. (AC002560) F21B7.1 [Arabidopsis thaliana]

Seq. No.	21223	Seq. ID	OJ990827_01.0103.C9
Gene No.	44294	Strand	-
Start	95	End	27362
Name	OJ990827_01.0103.C9.o3.tm	Method	TBLASTX:Maize
Start	22981	End	23164
GI	none	Score	192
Exons	22981..23163, 22982..23164		

Seq. No.	21223	Seq. ID	OJ990827_01.0103.C9
Gene No.	44294	Strand	-
Start	95	End	27362
Name	OJ990827_01.0103.C9.o4.ts	Method	TBLASTX:Soybean
Start	22981	End	23170
GI	none	Score	116
Exons	22981..23142, 22981..23169, 22988..23170		

Seq. No.	21223	Seq. ID	OJ990827_01.0103.C9
Gene No.	44294	Strand	-
Start	95	End	27362
Name	OJ990827_01.0103.C9.o3.tc	Method	TBLASTX:Cress
Start	22984	End	23164
GI	none	Score	84
Exons	22984..23139, 22988..23074, 23096..23164		

Seq. No.	21223	Seq. ID	OJ990827_01.0103.C9
Gene No.	44294	Strand	-
Start	95	End	27362
Name	OJ990827_01.0103.C9.o5.gs	Method	GENSCAN
Start	24071	End	24523
GI	none	Score	.99
Exons	24071..24523		

Seq. No.	21224	Seq. ID	OJ990827_01.0103.C10
Gene No.	44295	Strand	+
Start	4063	End	14741
Name	OJ990827_01.0103.C10.o3.gs	Method	GENSCAN
Start	4063	End	14700
GI	none	Score	.48
Exons	4063..4107, 4345..4446, 5453..5726, 6452..6560, 7157..7258, 7991..8093, 8377..8490, 8735..8804, 9214..9364, 11918..12166, 12220..12321, 14339..14464, 14505..14700		

Seq. No.	21224	Seq. ID	OJ990827_01.0103.C10
Gene No.	44295	Strand	+
Start	4063	End	14741
Name	OJ990827_01.0103.C10.o1.np	Method	AAT/NAP
Start	10222	End	14741
GI	6815053	Score	703
Exons	10222..10369, 10870..10914, 14325..14455, 14505..14741		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	21224	Seq. ID	OJ990827_01.0103.C10
Gene No.	44296	Strand	-
Start	1062	End	1881

Name	OJ990827_01.0103.C10.o1.gp	Method	AAT/GAP
Start	1062	End	1881
GI	24989_1.R1084	Score	323
Exons	1062..1115, 1664..1881		
GI Descrip.	'5042437/gb AC007789.1 AC007789 2.0e-13 Oryza sativa BAC T49B20 genomic sequence, complete sequence'		

Seq. No.	21224	Seq. ID	OJ990827_01.0103.C10
Gene No.	44297	Strand	-
Start	2052	End	3281
Name	OJ990827_01.0103.C10.o2.gs	Method	GENSCAN
Start	2052	End	3281
GI	none	Score	.43
Exons	2052..3281		

Seq. No.	21225	Seq. ID	OJ990827_01.0103.C11
Gene No.	44298	Strand	+
Start	32	End	70
Name	OJ990827_01.0103.C11.o1.gs	Method	GENSCAN
Start	32	End	70
GI	none	Score	.92
Exons	32..70		

Seq. No.	21226	Seq. ID	OJ990917_05.0121.C1
Gene No.	44299	Strand	-
Start	1	End	591
Name	OJ990917_05.0121.C1.o1.np	Method	AAT/NAP
Start	1	End	591
GI	4680207	Score	322
Exons	1..591		
GI Descrip.	(AF114171) disease resistance protein RPM1 homolog [Sorghum bicolor]		

Seq. No.	21226	Seq. ID	OJ990917_05.0121.C1
Gene No.	44299	Strand	-
Start	1	End	591
Name	OJ990917_05.0121.C1.o1.gs	Method	GENSCAN
Start	267	End	536
GI	none	Score	.51
Exons	267..536		

Seq. No.	21227	Seq. ID	OJ990917_05.0121.C2
Gene No.	44300	Strand	+
Start	1	End	9079
Name	OJ990917_05.0121.C2.o1.np	Method	AAT/NAP
Start	1	End	6116
GI	4680207	Score	1197
Exons	1..884, 2288..4132, 5964..6116		
GI Descrip.	(AF114171) disease resistance protein RPM1 homolog [Sorghum bicolor]		

Seq. No.	21227	Seq. ID	OJ990917_05.0121.C2
Gene No.	44300	Strand	+
Start	1	End	9079
Name	OJ990917_05.0121.C2.o1.gs	Method	GENSCAN
Start	88	End	9079
GI	none	Score	.7

Exons 88..884, 2669..3508, 3791..3882, 5040..5173, 5792..6139,  
6160..6378, 6555..6702, 6793..6925, 6945..7354, 7581..7699,  
7776..8084, 8098..8568, 8822..9079

Seq. No.	21227	Seq. ID	OJ990917_05.0121.C2
Gene No.	44301	Strand	+
Start	20862	End	22543
Name	OJ990917_05.0121.C2.o4.np	Method	AAT/NAP
Start	20862	End	22543
GI	6539588	Score	212
Exons	20862..21180, 22519..22543		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	21227	Seq. ID	OJ990917_05.0121.C2
Gene No.	44302	Strand	-
Start	2410	End	19385
Name	OJ990917_05.0121.C2.o4.tm	Method	TBLASTX:Maize
Start	535	End	19385
GI	none	Score	90
Exons	535..627, 643..801, 643..753, 663..803, 19110..19385, 19110..19370, 19232..19381		

Seq. No.	21227	Seq. ID	OJ990917_05.0121.C2
Gene No.	44302	Strand	-
Start	2410	End	19385
Name	OJ990917_05.0121.C2.o1.tc	Method	TBLASTX:Cress
Start	637	End	19295
GI	none	Score	82
Exons	637..717, 2202..2270, 2586..2732, 2751..2924, 2946..2981, 3075..3284, 3090..3359, 19236..19295, 19238..19294		

Seq. No.	21227	Seq. ID	OJ990917_05.0121.C2
Gene No.	44302	Strand	-
Start	2410	End	19385
Name	OJ990917_05.0121.C2.o1.ts	Method	TBLASTX:Soybean
Start	2202	End	2939
GI	none	Score	114
Exons	2202..2324, 2204..2323, 2370..2750, 2541..2693, 2760..2939		

Seq. No.	21227	Seq. ID	OJ990917_05.0121.C2
Gene No.	44302	Strand	-
Start	2410	End	19385
Name	OJ990917_05.0121.C2.o7.tw	Method	TBLASTX:Wheat
Start	2215	End	2426
GI	none	Score	60
Exons	2215..2421, 2217..2426, 2219..2425		

Seq. No.	21227	Seq. ID	OJ990917_05.0121.C2
Gene No.	44302	Strand	-
Start	2410	End	19385
Name	OJ990917_05.0121.C2.o5.tm	Method	TBLASTX:Maize
Start	2385	End	2932
GI	none	Score	35
Exons	2385..2414, 2451..2492, 2453..2533, 2544..2579, 2548..2580, 2604..2738, 2607..2738, 2742..2921, 2766..2918, 2774..2932		

Seq. No.	21227	Seq. ID	OJ990917_05.0121.C2
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Gene No.	44302	Strand	-
Start	2410	End	19385
Name	OJ990917_05.0121.C2.o3.np	Method	AAT/NAP
Start	2410	End	14735
GI	5902444	Score	413
Exons	2410..2444, 13214..14004, 14131..14735		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	21227	Seq. ID	OJ990917_05.0121.C2
Gene No.	44302	Strand	-
Start	2410	End	19385
Name	OJ990917_05.0121.C2.o3.tw	Method	TBLASTX:Wheat
Start	2700	End	3017
GI	none	Score	275
Exons	2700..3017, 2774..2992		

Seq. No.	21227	Seq. ID	OJ990917_05.0121.C2
Gene No.	44302	Strand	-
Start	2410	End	19385
Name	OJ990917_05.0121.C2.o2.np	Method	AAT/NAP
Start	9890	End	13996
GI	4206306	Score	2937
Exons	9890..13733, 13907..13996		
GI Descrip.	(AF049110) prpol [Zea mays]		

Seq. No.	21227	Seq. ID	OJ990917_05.0121.C2
Gene No.	44302	Strand	-
Start	2410	End	19385
Name	OJ990917_05.0121.C2.o8.tm	Method	TBLASTX:Maize
Start	9939	End	10201
GI	none	Score	95
Exons	9939..10151, 9941..10201		

Seq. No.	21227	Seq. ID	OJ990917_05.0121.C2
Gene No.	44302	Strand	-
Start	2410	End	19385
Name	OJ990917_05.0121.C2.o8.tw	Method	TBLASTX:Wheat
Start	9977	End	14735
GI	none	Score	55
Exons	9977..10054, 14367..14735		

Seq. No.	21227	Seq. ID	OJ990917_05.0121.C2
Gene No.	44302	Strand	-
Start	2410	End	19385
Name	OJ990917_05.0121.C2.o3.ts	Method	TBLASTX:Soybean
Start	10463	End	10837
GI	none	Score	63
Exons	10463..10681, 10479..10655, 10694..10837		

Seq. No.	21227	Seq. ID	OJ990917_05.0121.C2
Gene No.	44302	Strand	-
Start	2410	End	19385
Name	OJ990917_05.0121.C2.o2.tm	Method	TBLASTX:Maize
Start	10478	End	10840
GI	none	Score	80
Exons	10478..10600, 10478..10840, 10479..10748		

Seq. No.	21227	Seq. ID	OJ990917_05.0121.C2
Gene No.	44302	Strand	-
Start	2410	End	19385
Name	OJ990917_05.0121.C2.o4.tw	Method	TBLASTX:Wheat
Start	10610	End	10999
GI	none	Score	61
Exons	10610..10999, 10611..10742, 10800..10955		

Seq. No.	21227	Seq. ID	OJ990917_05.0121.C2
Gene No.	44302	Strand	-
Start	2410	End	19385
Name	OJ990917_05.0121.C2.o6.tm	Method	TBLASTX:Maize
Start	10841	End	11109
GI	none	Score	90
Exons	10841..11020, 10842..11009, 11023..11109		

Seq. No.	21227	Seq. ID	OJ990917_05.0121.C2
Gene No.	44302	Strand	-
Start	2410	End	19385
Name	OJ990917_05.0121.C2.o2.tw	Method	TBLASTX:Wheat
Start	11318	End	11749
GI	none	Score	36
Exons	11318..11749, 11325..11372, 11412..11492, 11532..11609		

Seq. No.	21227	Seq. ID	OJ990917_05.0121.C2
Gene No.	44302	Strand	-
Start	2410	End	19385
Name	OJ990917_05.0121.C2.o6.tw	Method	TBLASTX:Wheat
Start	11816	End	12189
GI	none	Score	167
Exons	11816..11893, 11911..11940, 11935..12189		

Seq. No.	21227	Seq. ID	OJ990917_05.0121.C2
Gene No.	44302	Strand	-
Start	2410	End	19385
Name	OJ990917_05.0121.C2.o2.ts	Method	TBLASTX:Soybean
Start	11935	End	12351
GI	none	Score	54
Exons	11935..12351, 12014..12091, 12206..12349		

Seq. No.	21227	Seq. ID	OJ990917_05.0121.C2
Gene No.	44302	Strand	-
Start	2410	End	19385
Name	OJ990917_05.0121.C2.o1.tm	Method	TBLASTX:Maize
Start	12118	End	12501
GI	none	Score	176
Exons	12118..12501, 12224..12391		

Seq. No.	21227	Seq. ID	OJ990917_05.0121.C2
Gene No.	44302	Strand	-
Start	2410	End	19385
Name	OJ990917_05.0121.C2.o1.tw	Method	TBLASTX:Wheat
Start	12241	End	12660
GI	none	Score	125
Exons	12241..12660, 12242..12457, 12491..12658		

Seq. No.	21227	Seq. ID	OJ990917_05.0121.C2
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Gene No. 44302  
 Start 2410  
 Name OJ990917\_05.0121.C2.o3.tm  
 Start 12529  
 GI none  
 Exons 12529..12795, 12530..12796

Strand -  
 End 19385  
 Method TBLASTX:Maize  
 End 12796  
 Score 198

Seq. No. 21227  
 Gene No. 44302  
 Start 2410  
 Name OJ990917\_05.0121.C2.o5.tw  
 Start 12661  
 GI none  
 Exons 12661..12789, 12661..12795, 12662..12808, 12855..12986

Seq. ID OJ990917\_05.0121.C2  
 Strand -  
 End 19385  
 Method TBLASTX:Wheat  
 End 12986  
 Score 92

Seq. No. 21227  
 Gene No. 44302  
 Start 2410  
 Name OJ990917\_05.0121.C2.o3.gs  
 Start 13002  
 GI none  
 Exons 13002..14459, 14622..15002, 15158..15427, 15810..15929

Seq. ID OJ990917\_05.0121.C2  
 Strand -  
 End 19385  
 Method GENSCAN  
 End 15929  
 Score .91

Seq. No. 21227  
 Gene No. 44302  
 Start 2410  
 Name OJ990917\_05.0121.C2.o9.tw  
 Start 13215  
 GI none  
 Exons 13215..13391, 13216..13404, 13443..13595

Seq. ID OJ990917\_05.0121.C2  
 Strand -  
 End 19385  
 Method TBLASTX:Wheat  
 End 13595  
 Score 77

Seq. No. 21227  
 Gene No. 44302  
 Start 2410  
 Name OJ990917\_05.0121.C2.o7.tm  
 Start 14508  
 GI none  
 Exons 14508..14777, 14509..14646

Seq. ID OJ990917\_05.0121.C2  
 Strand -  
 End 19385  
 Method TBLASTX:Maize  
 End 14777  
 Score 72

Seq. No. 21228  
 Gene No. 44303  
 Start 1  
 Name OJ990917\_05.0121.C3.o2.np  
 Start 1  
 GI 4680207  
 Exons 1..44, 1459..3328  
 GI Descrip. (AF114171) disease resistance protein RPM1 homolog [Sorghum bicolor]

Seq. ID OJ990917\_05.0121.C3  
 Strand +  
 End 3402  
 Method AAT/NAP  
 End 3328  
 Score 752

Seq. No. 21228  
 Gene No. 44303  
 Start 1  
 Name OJ990917\_05.0121.C3.o1.gs  
 Start 304  
 GI none  
 Exons 304..498, 668..791, 1028..1116, 1122..1275, 1548..2714, 2810..3402

Seq. ID OJ990917\_05.0121.C3  
 Strand +  
 End 3402  
 Method GENSCAN  
 End 3402  
 Score .68

Seq. No.	21228	Seq. ID	OJ990917_05.0121.C3
Gene No.	44303	Strand	+
Start	1	End	3402
Name	OJ990917_05.0121.C3.o1.np	Method	AAT/NAP
Start	1001	End	2682
GI	6539588	Score	212
Exons	1001..1331, 2655..2682		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	21228	Seq. ID	OJ990917_05.0121.C3
Gene No.	44303	Strand	+
Start	1	End	3402
Name	OJ990917_05.0121.C3.o1.ts	Method	TBLASTX:Soybean
Start	1415	End	2152
GI	none	Score	115
Exons	1415..1603, 1586..1750, 1778..1909, 1925..2152		

Seq. No.	21228	Seq. ID	OJ990917_05.0121.C3
Gene No.	44303	Strand	+
Start	1	End	3402
Name	OJ990917_05.0121.C3.o1.tm	Method	TBLASTX:Maize
Start	1619	End	2092
GI	none	Score	83
Exons	1619..1702, 1622..1690, 1775..1903, 1778..1909, 1801..1920, 1895..1987, 1913..2092, 1937..2083		

Seq. No.	21228	Seq. ID	OJ990917_05.0121.C3
Gene No.	44303	Strand	+
Start	1	End	3402
Name	OJ990917_05.0121.C3.o1.tw	Method	TBLASTX:Wheat
Start	1877	End	2320
GI	none	Score	257
Exons	1877..2191, 1882..2148, 2243..2320		

Seq. No.	21229	Seq. ID	OJ990917_05.0121.C4
Gene No.	44304	Strand	+
Start	4071	End	13067
Name	OJ990917_05.0121.C4.o2.gs	Method	GENSCAN
Start	4071	End	5827
GI	none	Score	.77
Exons	4071..4141, 4450..4525, 5381..5827		

Seq. No.	21229	Seq. ID	OJ990917_05.0121.C4
Gene No.	44304	Strand	+
Start	4071	End	13067
Name	OJ990917_05.0121.C4.o1.gp	Method	AAT/GAP
Start	4815	End	5006
GI	5667165	Score	364
Exons	4815..5006		
GI Descrip.	5670155/gb AF161269.1 AF161269 4.0e-86 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence		

Seq. No.	21229	Seq. ID	OJ990917_05.0121.C4
Gene No.	44304	Strand	+
Start	4071	End	13067
Name	OJ990917_05.0121.C4.o3.np	Method	AAT/NAP

Start	5088	End	6850
GI	6907086	Score	1324
Exons	5088..5844, 5902..6134, 6363..6447, 6548..6850		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	21229	Seq. ID	OJ990917_05.0121.C4
Gene No.	44304	Strand	+
Start	4071	End	13067
Name	OJ990917_05.0121.C4.o5.np	Method	AAT/NAP
Start	6146	End	13067
GI	4680207	Score	1140
Exons	6146..6167, 9132..9174, 9375..10133, 10167..10227, 11663..13067		
GI Descrip.	(AF114171) disease resistance protein RPM1 homolog [Sorghum bicolor]		

Seq. No.	21229	Seq. ID	OJ990917_05.0121.C4
Gene No.	44304	Strand	+
Start	4071	End	13067
Name	OJ990917_05.0121.C4.o6.np	Method	AAT/NAP
Start	9128	End	12719
GI	4521190	Score	517
Exons	9128..9147, 9860..10227, 11579..12719		
GI Descrip.	(AB013448) Pib [Oryza sativa] gi 4521192 dbj BAA76282.1  (AB013449) Pib [Oryza sativa]		

Seq. No.	21229	Seq. ID	OJ990917_05.0121.C4
Gene No.	44305	Strand	-
Start	1	End	2868
Name	OJ990917_05.0121.C4.o1.np	Method	AAT/NAP
Start	1	End	2575
GI	4539660	Score	635
Exons	1..450, 538..1367, 2549..2575		
GI Descrip.	(AF061282) polyprotein [Sorghum bicolor]		

Seq. No.	21229	Seq. ID	OJ990917_05.0121.C4
Gene No.	44305	Strand	-
Start	1	End	2868
Name	OJ990917_05.0121.C4.o2.np	Method	AAT/NAP
Start	2087	End	2868
GI	6002794	Score	1260
Exons	2087..2868		
GI Descrip.	(AF149813) unknown [Oryza sativa]		

Seq. No.	21229	Seq. ID	OJ990917_05.0121.C4
Gene No.	44306	Strand	-
Start	6933	End	10551
Name	OJ990917_05.0121.C4.o3.tw	Method	TBLASTX:Wheat
Start	142	End	588
GI	none	Score	95
Exons	142..420, 248..358, 535..588		

Seq. No.	21229	Seq. ID	OJ990917_05.0121.C4
Gene No.	44306	Strand	-
Start	6933	End	10551
Name	OJ990917_05.0121.C4.o3.tm	Method	TBLASTX:Maize
Start	718	End	1119
GI	none	Score	239



Exons 718..1119

Seq. No. 21229  
Gene No. 44306  
Start 6933  
Name OJ990917\_05.0121.C4.o2.tw  
Start 1000  
GI none  
Exons 1000..1377, 1259..1330

Seq. ID OJ990917\_05.0121.C4  
Strand -  
End 10551  
Method TBLASTX:Wheat  
End 1377  
Score 53

Seq. No. 21229  
Gene No. 44306  
Start 6933  
Name OJ990917\_05.0121.C4.o4.np  
Start 6933  
GI 6498436  
Exons 6933..7050, 7315..7481, 10516..10551  
GI Descrip. (AP000815) hypothetical protein [Oryza sativa]

Seq. ID OJ990917\_05.0121.C4  
Strand -  
End 10551  
Method AAT/NAP  
End 10551  
Score 208

Seq. No. 21229  
Gene No. 44306  
Start 6933  
Name OJ990917\_05.0121.C4.o1.tm  
Start 9830  
GI none  
Exons 9830..10099, 9941..10084, 9961..10101

Seq. ID OJ990917\_05.0121.C4  
Strand -  
End 10551  
Method TBLASTX:Maize  
End 10101  
Score 283

Seq. No. 21229  
Gene No. 44307  
Start 11592  
Name OJ990917\_05.0121.C4.o4.tw  
Start 11592  
GI none  
Exons 11592..11798, 11594..11716

Seq. ID OJ990917\_05.0121.C4  
Strand -  
End 12782  
Method TBLASTX:Wheat  
End 11798  
Score 180

Seq. No. 21229  
Gene No. 44307  
Start 11592  
Name OJ990917\_05.0121.C4.o1.ts  
Start 11619  
GI none  
Exons 11619..11801, 11621..11704, 11798..11968, 11799..11954, 11928..12113, 11973..12113, 12129..12362, 12528..12716, 12723..12782

Seq. ID OJ990917\_05.0121.C4  
Strand -  
End 12782  
Method TBLASTX:Soybean  
End 12782  
Score 111

Seq. No. 21229  
Gene No. 44307  
Start 11592  
Name OJ990917\_05.0121.C4.o2.tm  
Start 11826  
GI none  
Exons 11826..11867, 11979..12113, 11982..12113, 12117..12296, 12141..12293, 12143..12307

Seq. ID OJ990917\_05.0121.C4  
Strand -  
End 12782  
Method TBLASTX:Maize  
End 12307  
Score 40

Seq. No. 21229  
Gene No. 44307  
Start 11592

Seq. ID OJ990917\_05.0121.C4  
Strand -  
End 12782

Name	OJ990917_05.0121.C4.o1.tw	Method	TBLASTX:Wheat
Start	12070	End	12377
GI	none	Score	79
Exons	12070..12285, 12075..12377, 12075..12296, 12323..12352		

  

Seq. No.	21230	Seq. ID	OJ990917_05.0121.C5
Gene No.	44308	Strand	+
Start	1	End	3436
Name	OJ990917_05.0121.C5.o2.np	Method	AAT/NAP
Start	1	End	3436
GI	3252977	Score	79
Exons	1..37, 1133..1519, 3407..3436		
GI Descrip.	(AF068919) Ras-binding protein SUR-8 [Caenorhabditis elegans] gi 3293318 (AF054827) leucine-rich repeat protein SOC-2 [Caenorhabditis elegans]		

  

Seq. No.	21230	Seq. ID	OJ990917_05.0121.C5
Gene No.	44308	Strand	+
Start	1	End	3436
Name	OJ990917_05.0121.C5.o1.np	Method	AAT/NAP
Start	409	End	3377
GI	4680207	Score	714
Exons	409..2254, 3347..3377		
GI Descrip.	(AF114171) disease resistance protein RPM1 homolog [Sorghum bicolor]		

  

Seq. No.	21230	Seq. ID	OJ990917_05.0121.C5
Gene No.	44309	Strand	+
Start	4249	End	9127
Name	OJ990917_05.0121.C5.o3.np	Method	AAT/NAP
Start	4249	End	9127
GI	5091513	Score	1876
Exons	4249..4269, 5952..6861, 7375..7451, 7603..8359, 8833..8912, 9021..9127		
GI Descrip.	(AB023482) Hypothetical protein [Oryza sativa]		

  

Seq. No.	21230	Seq. ID	OJ990917_05.0121.C5
Gene No.	44309	Strand	+
Start	4249	End	9127
Name	OJ990917_05.0121.C5.o1.gp	Method	AAT/GAP
Start	4821	End	5058
GI	3761181	Score	400
Exons	4821..5058		
GI Descrip.	4521193/dbj AB013450.1 AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene		

  

Seq. No.	21230	Seq. ID	OJ990917_05.0121.C5
Gene No.	44309	Strand	+
Start	4249	End	9127
Name	OJ990917_05.0121.C5.o2.gs	Method	GENSCAN
Start	6147	End	6992
GI	none	Score	.76
Exons	6147..6992		

  

Seq. No.	21230	Seq. ID	OJ990917_05.0121.C5
Gene No.	44309	Strand	+
Start	4249	End	9127

Name	OJ990917_05.0121.C5.o3.gs	Method	GENSCAN
Start	7702	End	8530
GI	none	Score	.92
Exons	7702..8017, 8023..8122, 8230..8530		

Seq. No.	21230	Seq. ID	OJ990917_05.0121.C5
Gene No.	44309	Strand	+
Start	4249	End	9127
Name	OJ990917_05.0121.C5.o4.gs	Method	GENSCAN
Start	8890	End	9045
GI	none	Score	.68
Exons	8890..9045		

Seq. No.	21230	Seq. ID	OJ990917_05.0121.C5
Gene No.	44310	Strand	+
Start	10606	End	10852
Name	OJ990917_05.0121.C5.o2.tw	Method	TBLASTX:Wheat
Start	336	End	547
GI	none	Score	57
Exons	336..542, 338..547, 340..546		

Seq. No.	21230	Seq. ID	OJ990917_05.0121.C5
Gene No.	44310	Strand	+
Start	10606	End	10852
Name	OJ990917_05.0121.C5.o1.ts	Method	TBLASTX:Soybean
Start	365	End	1006
GI	none	Score	112
Exons	365..538, 554..679, 674..859, 860..1006		

Seq. No.	21230	Seq. ID	OJ990917_05.0121.C5
Gene No.	44310	Strand	+
Start	10606	End	10852
Name	OJ990917_05.0121.C5.o1.tm	Method	TBLASTX:Maize
Start	506	End	1042
GI	none	Score	35
Exons	506..535, 572..658, 574..657, 656..697, 665..700, 725..859, 728..859, 863..1042, 889..1038		

Seq. No.	21230	Seq. ID	OJ990917_05.0121.C5
Gene No.	44310	Strand	+
Start	10606	End	10852
Name	OJ990917_05.0121.C5.o1.tw	Method	TBLASTX:Wheat
Start	821	End	1138
GI	none	Score	267
Exons	821..1138, 830..1042, 895..1092		

Seq. No.	21230	Seq. ID	OJ990917_05.0121.C5
Gene No.	44310	Strand	+
Start	10606	End	10852
Name	OJ990917_05.0121.C5.o2.gp	Method	AAT/GAP
Start	10606	End	10852
GI	3761181	Score	441
Exons	10606..10852		
GI Descrip.	4521193/dbj AB013450.1 AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	21231	Seq. ID	OJ990917_05.0121.C6
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Gene No.	44311	Strand	+
Start	369	End	3778
Name	OJ990917_05.0121.C6.o1.gs	Method	GENSCAN
Start	369	End	3778
GI	none	Score	.96
Exons	369..512, 934..1008, 2069..3778		
Seq. No.	21231	Seq. ID	OJ990917_05.0121.C6
Gene No.	44312	Strand	+
Start	4425	End	4842
Name	OJ990917_05.0121.C6.o1.gp	Method	AAT/GAP
Start	4425	End	4842
GI	none	Score	804
Exons	4425..4842		
Seq. No.	21231	Seq. ID	OJ990917_05.0121.C6
Gene No.	44313	Strand	+
Start	9615	End	9889
Name	OJ990917_05.0121.C6.o4.gp	Method	AAT/GAP
Start	9615	End	9889
GI	61605_3.R1084	Score	294
Exons	9615..9889		
GI Descrip.	'1402920/emb CAA66965  2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		
Seq. No.	21231	Seq. ID	OJ990917_05.0121.C6
Gene No.	44314	Strand	-
Start	4881	End	13105
Name	OJ990917_05.0121.C6.o2.gs	Method	GENSCAN
Start	4881	End	11630
GI	none	Score	.85
Exons	4881..5429, 5511..5638, 6049..6152, 7313..7467, 7630..8002, 9934..10061, 10380..10628, 11199..11445, 11518..11630		
Seq. No.	21231	Seq. ID	OJ990917_05.0121.C6
Gene No.	44314	Strand	-
Start	4881	End	13105
Name	OJ990917_05.0121.C6.o2.np	Method	AAT/NAP
Start	4884	End	13105
GI	5734760	Score	1150
Exons	4884..5429, 5511..5638, 6049..6152, 9934..10061, 11199..11307, 12969..13105		
GI Descrip.	(AC007651) Very similar to prenyl transferase [Arabidopsis thaliana]		
Seq. No.	21231	Seq. ID	OJ990917_05.0121.C6
Gene No.	44314	Strand	-
Start	4881	End	13105
Name	OJ990917_05.0121.C6.o2.gp	Method	AAT/GAP
Start	7886	End	8620
GI	101153_1.R1084	Score	390
Exons	7886..7914, 8391..8620		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-115 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:tl7804'		
Seq. No.	21231	Seq. ID	OJ990917_05.0121.C6
Gene No.	44314	Strand	-

Start	4881	End	13105
Name	OJ990917_05.0121.C6.o5.gp	Method	AAT/GAP
Start	12180	End	12262
GI	LIB3477-003-P1-K1-E9	Score	111
Exons	12180..12262		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	21231	Seq. ID	OJ990917_05.0121.C6
Gene No.	44315	Strand	-
Start	13725	End	19548
Name	OJ990917_05.0121.C6.o2.tc	Method	TBLASTX:Cress
Start	2066	End	2281
GI	none	Score	184
Exons	2066..2281, 2068..2205		

Seq. No.	21231	Seq. ID	OJ990917_05.0121.C6
Gene No.	44315	Strand	-
Start	13725	End	19548
Name	OJ990917_05.0121.C6.o1.tm	Method	TBLASTX:Maize
Start	2134	End	2802
GI	none	Score	596
Exons	2134..2799, 2135..2800, 2142..2240, 2216..2635, 2289..2798, 2296..2802		

Seq. No.	21231	Seq. ID	OJ990917_05.0121.C6
Gene No.	44315	Strand	-
Start	13725	End	19548
Name	OJ990917_05.0121.C6.o3.tm	Method	TBLASTX:Maize
Start	2803	End	3143
GI	none	Score	353
Exons	2803..3138, 2804..3142, 2805..3143, 2954..3142		

Seq. No.	21231	Seq. ID	OJ990917_05.0121.C6
Gene No.	44315	Strand	-
Start	13725	End	19548
Name	OJ990917_05.0121.C6.o4.ts	Method	TBLASTX:Soybean
Start	3124	End	3589
GI	none	Score	199
Exons	3124..3486, 3263..3589		

Seq. No.	21231	Seq. ID	OJ990917_05.0121.C6
Gene No.	44315	Strand	-
Start	13725	End	19548
Name	OJ990917_05.0121.C6.o5.tm	Method	TBLASTX:Maize
Start	3199	End	3589
GI	none	Score	98
Exons	3199..3399, 3199..3588, 3200..3589		

Seq. No.	21231	Seq. ID	OJ990917_05.0121.C6
Gene No.	44315	Strand	-
Start	13725	End	19548
Name	OJ990917_05.0121.C6.o6.tm	Method	TBLASTX:Maize
Start	3647	End	3883
GI	none	Score	213
Exons	3647..3859, 3647..3883		

Seq. No.	21231	Seq. ID	OJ990917_05.0121.C6
Gene No.	44315	Strand	-
Start	13725	End	19548
Name	OJ990917_05.0121.C6.o1.ts	Method	TBLASTX:Soybean
Start	4878	End	5427
GI	none	Score	67
Exons	4878..5201, 4881..5030, 5029..5178, 5178..5426, 5179..5427		
Seq. No.	21231	Seq. ID	OJ990917_05.0121.C6
Gene No.	44315	Strand	-
Start	13725	End	19548
Name	OJ990917_05.0121.C6.o2.tm	Method	TBLASTX:Maize
Start	5041	End	10035
GI	none	Score	108
Exons	5041..5163, 5046..5162, 5160..5441, 5161..5430, 5491..5640, 5493..5639, 6047..6151, 6048..6152, 6048..6197, 9930..10034, 9936..10034, 9937..10035		
Seq. No.	21231	Seq. ID	OJ990917_05.0121.C6
Gene No.	44315	Strand	-
Start	13725	End	19548
Name	OJ990917_05.0121.C6.o1.tc	Method	TBLASTX:Cress
Start	5326	End	10029
GI	none	Score	81
Exons	5326..5430, 5328..5441, 5491..5640, 5493..5639, 6021..6152, 6046..6153, 6047..6154, 9936..10028, 9937..10029		
Seq. No.	21231	Seq. ID	OJ990917_05.0121.C6
Gene No.	44315	Strand	-
Start	13725	End	19548
Name	OJ990917_05.0121.C6.o3.ts	Method	TBLASTX:Soybean
Start	5491	End	10073
GI	none	Score	156
Exons	5491..5661, 5493..5639, 6020..6163, 6021..6167, 9936..10061, 9937..10059, 9941..10069, 9999..10073		
Seq. No.	21231	Seq. ID	OJ990917_05.0121.C6
Gene No.	44315	Strand	-
Start	13725	End	19548
Name	OJ990917_05.0121.C6.o3.np	Method	AAT/NAP
Start	12577	End	19548
GI	4680207	Score	619
Exons	12577..12602, 14952..15459, 15784..16355, 16870..17251, 18036..18369, 19438..19548		
GI Descrip.	(AF114171) disease resistance protein RPM1 homolog [Sorghum bicolor]		
Seq. No.	21231	Seq. ID	OJ990917_05.0121.C6
Gene No.	44315	Strand	-
Start	13725	End	19548
Name	OJ990917_05.0121.C6.o3.gs	Method	GENSCAN
Start	13725	End	15156
GI	none	Score	.9
Exons	13725..13842, 14936..15156		
Seq. No.	21231	Seq. ID	OJ990917_05.0121.C6

Gene No. 44315  
 Start 13725  
 Name OJ990917\_05.0121.C6.o2.tw  
 Start 15967  
 GI none  
 Exons 15967..16365, 15968..16366

Strand -  
 End 19548  
 Method TBLASTX:Wheat  
 End 16366  
 Score 93

Seq. No. 21231  
 Gene No. 44315  
 Start 13725  
 Name OJ990917\_05.0121.C6.o2.ts  
 Start 16024  
 GI none  
 Exons 16024..16212, 16949..17104, 17123..17263, 18078..18224, 18237..18413

Seq. ID OJ990917\_05.0121.C6  
 Strand -  
 End 19548  
 Method TBLASTX:Soybean  
 End 18413  
 Score 42

Seq. No. 21231  
 Gene No. 44315  
 Start 13725  
 Name OJ990917\_05.0121.C6.o1.tw  
 Start 16937  
 GI none  
 Exons 16937..17095, 16944..17108, 17123..17218, 17124..17216

Seq. ID OJ990917\_05.0121.C6  
 Strand -  
 End 19548  
 Method TBLASTX:Wheat  
 End 17218  
 Score 112

Seq. No. 21231  
 Gene No. 44315  
 Start 13725  
 Name OJ990917\_05.0121.C6.o4.tm  
 Start 16938  
 GI none  
 Exons 16938..17093, 16940..17107, 17123..17254, 17132..17257, 18081..18113, 18132..18206

Seq. ID OJ990917\_05.0121.C6  
 Strand -  
 End 19548  
 Method TBLASTX:Maize  
 End 18206  
 Score 110

Seq. No. 21232  
 Gene No. 44316  
 Start 338  
 Name OJ990917\_05.0121.C7.o1.gs  
 Start 338  
 GI none  
 Exons 338..532, 1986..3301, 3500..3987

Seq. ID OJ990917\_05.0121.C7  
 Strand +  
 End 4648  
 Method GENSCAN  
 End 3987  
 Score .61

Seq. No. 21232  
 Gene No. 44316  
 Start 338  
 Name OJ990917\_05.0121.C7.o1.np  
 Start 1071  
 GI 6272383  
 Exons 1071..1112, 2380..2652, 4627..4648  
 GI Descrip. (AC007918) F28J9.14 [Arabidopsis thaliana]

Seq. ID OJ990917\_05.0121.C7  
 Strand +  
 End 4648  
 Method AAT/NAP  
 End 4648  
 Score 85

Seq. No. 21232  
 Gene No. 44316  
 Start 338  
 Name OJ990917\_05.0121.C7.o2.np  
 Start 2023  
 GI 6466937  
 Exons 2023..2164, 2465..4630

Seq. ID OJ990917\_05.0121.C7  
 Strand +  
 End 4648  
 Method AAT/NAP  
 End 4630  
 Score 918

GI Descrip. (AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]

Seq. No.	21232	Seq. ID	OJ990917_05.0121.C7
Gene No.	44316	Strand	+
Start	338	End	4648
Name	OJ990917_05.0121.C7.ol.tw	Method	TBLASTX:Wheat
Start	3975	End	4344
GI	none	Score	46
Exons	3975..4025, 4017..4340, 4018..4344		

Seq. No.	21232	Seq. ID	OJ990917_05.0121.C7
Gene No.	44316	Strand	+
Start	338	End	4648
Name	OJ990917_05.0121.C7.ol.tm	Method	TBLASTX:Maize
Start	4008	End	4394
GI	none	Score	371
Exons	4008..4370, 4018..4374, 4209..4394		

Seq. No.	21232	Seq. ID	OJ990917_05.0121.C7
Gene No.	44316	Strand	+
Start	338	End	4648
Name	OJ990917_05.0121.C7.ol.ts	Method	TBLASTX:Soybean
Start	4321	End	4618
GI	none	Score	58
Exons	4321..4365, 4326..4361, 4382..4618, 4414..4611		

Seq. No.	21232	Seq. ID	OJ990917_05.0121.C7
Gene No.	44316	Strand	+
Start	338	End	4648
Name	OJ990917_05.0121.C7.o2.tw	Method	TBLASTX:Wheat
Start	4348	End	4597
GI	none	Score	39
Exons	4348..4377, 4381..4596, 4382..4597		

Seq. No.	21232	Seq. ID	OJ990917_05.0121.C7
Gene No.	44316	Strand	+
Start	338	End	4648
Name	OJ990917_05.0121.C7.o2.tm	Method	TBLASTX:Maize
Start	4403	End	4618
GI	none	Score	197
Exons	4403..4618, 4459..4611		

Seq. No.	21233	Seq. ID	OJ990917_05.0121.C8
Gene No.	44317	Strand	+
Start	340	End	1144
Name	OJ990917_05.0121.C8.ol.gs	Method	GENSCAN
Start	340	End	1144
GI	none	Score	.51
Exons	340..417, 1076..1144		

Seq. No.	21233	Seq. ID	OJ990917_05.0121.C8
Gene No.	44318	Strand	-
Start	1059	End	1540
Name	OJ990917_05.0121.C8.ol.gp	Method	AAT/GAP
Start	1059	End	1540
GI	94945_1.R1084	Score	541



Exons 1059..1096, 1190..1540  
 GI Descrip. '4521194/dbj|AB013613.1|AB013613 1.0e-132 Oryza sativa DNA, centromere sequence RCB11'

Seq. No. 21234 Seq. ID OJ990917\_05.0121.C9  
 Gene No. 44319 Strand +  
 Start 1 End 7475  
 Name OJ990917\_05.0121.C9.o2.np Method AAT/NAP  
 Start 1 End 7475  
 GI 6466937 Score 1147  
 Exons 1..54, 4139..5553, 6782..7475  
 GI Descrip. (AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]

Seq. No. 21234 Seq. ID OJ990917\_05.0121.C9  
 Gene No. 44319 Strand +  
 Start 1 End 7475  
 Name OJ990917\_05.0121.C9.o1.gs Method GENSCAN  
 Start 620 End 5633  
 GI none Score .48  
 Exons 620..870, 1950..2116, 2176..2203, 2559..2791, 2957..3033, 3263..3397, 3573..3610, 3688..3841, 4199..4328, 4504..4842, 4954..5633

Seq. No. 21234 Seq. ID OJ990917\_05.0121.C9  
 Gene No. 44319 Strand +  
 Start 1 End 7475  
 Name OJ990917\_05.0121.C9.o1.np Method AAT/NAP  
 Start 2653 End 4790  
 GI 5922620 Score 314  
 Exons 2653..2862, 3224..3535, 3573..3657, 4765..4790  
 GI Descrip. (AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]  
 gi|6016853|dbj|BAA85196.1| (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No. 21234 Seq. ID OJ990917\_05.0121.C9  
 Gene No. 44320 Strand -  
 Start 5786 End 7924  
 Name OJ990917\_05.0121.C9.o3.tm Method TBLASTX:Maize  
 Start 4139 End 4423  
 GI none Score 241  
 Exons 4139..4423, 4141..4383

Seq. No. 21234 Seq. ID OJ990917\_05.0121.C9  
 Gene No. 44320 Strand -  
 Start 5786 End 7924  
 Name OJ990917\_05.0121.C9.o3.tw Method TBLASTX:Wheat  
 Start 4196 End 4538  
 GI none Score 153  
 Exons 4196..4477, 4455..4538

Seq. No. 21234 Seq. ID OJ990917\_05.0121.C9  
 Gene No. 44320 Strand -  
 Start 5786 End 7924  
 Name OJ990917\_05.0121.C9.o4.tm Method TBLASTX:Maize

Start 4470  
 GI none  
 Exons 4470..4646, 4683..4892

End 4892  
 Score 91

Seq. No. 21234  
 Gene No. 44320  
 Start 5786  
 Name OJ990917\_05.0121.C9.o1.tw  
 Start 4626  
 GI none  
 Exons 4626..5057

Seq. ID OJ990917\_05.0121.C9  
 Strand -  
 End 7924  
 Method TBLASTX:Wheat  
 End 5057  
 Score 283

Seq. No. 21234  
 Gene No. 44320  
 Start 5786  
 Name OJ990917\_05.0121.C9.o1.tm  
 Start 4893  
 GI none  
 Exons 4893..5528, 5030..5485

Seq. ID OJ990917\_05.0121.C9  
 Strand -  
 End 7924  
 Method TBLASTX:Maize  
 End 5528  
 Score 614

Seq. No. 21234  
 Gene No. 44320  
 Start 5786  
 Name OJ990917\_05.0121.C9.o1.ts  
 Start 4914  
 GI none  
 Exons 4914..5300, 4928..5179

Seq. ID OJ990917\_05.0121.C9  
 Strand -  
 End 7924  
 Method TBLASTX:Soybean  
 End 5300  
 Score 357

Seq. No. 21234  
 Gene No. 44320  
 Start 5786  
 Name OJ990917\_05.0121.C9.o2.tw  
 Start 5148  
 GI none  
 Exons 5148..5528, 6854..6964

Seq. ID OJ990917\_05.0121.C9  
 Strand -  
 End 7924  
 Method TBLASTX:Wheat  
 End 6964  
 Score 254

Seq. No. 21234  
 Gene No. 44320  
 Start 5786  
 Name OJ990917\_05.0121.C9.o2.gs  
 Start 5786  
 GI none  
 Exons 5786..5976, 7281..7416, 7843..7924

Seq. ID OJ990917\_05.0121.C9  
 Strand -  
 End 7924  
 Method GENSCAN  
 End 7924  
 Score .59

Seq. No. 21234  
 Gene No. 44320  
 Start 5786  
 Name OJ990917\_05.0121.C9.o2.tm  
 Start 6815  
 GI none  
 Exons 6815..7177, 7021..7110, 7148..7333

Seq. ID OJ990917\_05.0121.C9  
 Strand -  
 End 7924  
 Method TBLASTX:Maize  
 End 7333  
 Score 266

Seq. No. 21234  
 Gene No. 44320  
 Start 5786  
 Name OJ990917\_05.0121.C9.o4.tw  
 Start 7016

Seq. ID OJ990917\_05.0121.C9  
 Strand -  
 End 7924  
 Method TBLASTX:Wheat  
 End 7234

GI	none	Score	179
Exons	7016..7234, 7021..7110		
Seq. No.	21235	Seq. ID	OJ990917_05.0121.C10
Gene No.	44321	Strand	+
Start	932	End	1447
Name	OJ990917_05.0121.C10.o1.gp	Method	AAT/GAP
Start	932	End	1447
GI	none	Score	995
Exons	932..1447		
Seq. No.	21235	Seq. ID	OJ990917_05.0121.C10
Gene No.	44322	Strand	+
Start	2583	End	2732
Name	OJ990917_05.0121.C10.o2.gp	Method	AAT/GAP
Start	2583	End	2732
GI	LIB3474-009-P1-K1-F11	Score	227
Exons	2583..2732		
GI Descrip.	'4455244/emb CAB36743.1  6.0e-11 (AL035523) MtN3-like protein [Arabidopsis thaliana]'		
Seq. No.	21235	Seq. ID	OJ990917_05.0121.C10
Gene No.	44323	Strand	+
Start	4945	End	6233
Name	OJ990917_05.0121.C10.o2.gs	Method	GENSCAN
Start	4945	End	6233
GI	none	Score	.83
Exons	4945..4977, 5587..5740, 6121..6233		
Seq. No.	21235	Seq. ID	OJ990917_05.0121.C10
Gene No.	44324	Strand	+
Start	13590	End	14178
Name	OJ990917_05.0121.C10.o5.gs	Method	GENSCAN
Start	13590	End	14178
GI	none	Score	.89
Exons	13590..13624, 13962..14178		
Seq. No.	21235	Seq. ID	OJ990917_05.0121.C10
Gene No.	44325	Strand	+
Start	15180	End	17211
Name	OJ990917_05.0121.C10.o6.gs	Method	GENSCAN
Start	15180	End	17211
GI	none	Score	.89
Exons	15180..15890, 17080..17211		
Seq. No.	21235	Seq. ID	OJ990917_05.0121.C10
Gene No.	44326	Strand	-
Start	10596	End	12392
Name	OJ990917_05.0121.C10.o4.gs	Method	GENSCAN
Start	10596	End	12392
GI	none	Score	.41
Exons	10596..11286, 11452..11810, 11829..12392		
Seq. No.	21235	Seq. ID	OJ990917_05.0121.C10
Gene No.	44327	Strand	-
Start	18871	End	19502
Name	OJ990917_05.0121.C10.o1.tw	Method	TBLASTX:Wheat

Start	12141	End	12476
GI	none	Score	54
Exons	12141..12284, 12142..12282, 12288..12476, 12339..12425		
Seq. No.	21235	Seq. ID	OJ990917_05.0121.C10
Gene No.	44327	Strand	-
Start	18871	End	19502
Name	OJ990917_05.0121.C10.o7.gs	Method	GENSCAN
Start	18871	End	19502
GI	none	Score	.48
Exons	18871..18890, 19148..19502		
Seq. No.	21236	Seq. ID	OJ991107_45.0203.C2
Gene No.	44328	Strand	+
Start	229	End	753
Name	OJ991107_45.0203.C2.o1.gs	Method	GENSCAN
Start	229	End	753
GI	none	Score	.62
Exons	229..753		
Seq. No.	21236	Seq. ID	OJ991107_45.0203.C2
Gene No.	44328	Strand	+
Start	229	End	753
Name	OJ991107_45.0203.C2.o1.np	Method	AAT/NAP
Start	281	End	738
GI	1575752	Score	319
Exons	281..738		
GI Descrip.	(U70672) glutathione S-transferase [Arabidopsis thaliana] gi 6714419 gb AAF26107.1 AC012328_10 (AC012328) glutathione S-transferase [Arabidopsis thaliana]		
Seq. No.	21236	Seq. ID	OJ991107_45.0203.C2
Gene No.	44329	Strand	+
Start	2268	End	3116
Name	OJ991107_45.0203.C2.o2.gp	Method	AAT/GAP
Start	2198	End	2924
GI	LIB3434-019-P1-K1-E2	Score	989
Exons	2198..2420, 2502..2550, 2650..2924		
GI Descrip.	'4127352/emb CAA09190  1.0e-23 (AJ010451) glutathione transferase [Alopecurus myosuroides]'		
Seq. No.	21236	Seq. ID	OJ991107_45.0203.C2
Gene No.	44329	Strand	+
Start	2268	End	3116
Name	OJ991107_45.0203.C2.o2.gs	Method	GENSCAN
Start	2268	End	3116
GI	none	Score	.49
Exons	2268..2420, 2502..2550, 2619..2668, 2685..3116		
Seq. No.	21236	Seq. ID	OJ991107_45.0203.C2
Gene No.	44329	Strand	+
Start	2268	End	3116
Name	OJ991107_45.0203.C2.o2.np	Method	AAT/NAP
Start	2277	End	3105
GI	1170089	Score	330
Exons	2277..2471, 2650..3105		
GI Descrip.	GLUTATHIONE S-TRANSFERASE ERD13 (GST CLASS PHI)		

gi|481822|pir||S39542 probable glutathione transferase (EC 2.5.1.18) (clone ERD13) - Arabidopsis thaliana  
 gi|497789|dbj|BAA04554| (D17673) glutathione S-transferase [Arabidopsis thaliana] gi|3201614|gb|AAC20721.1| (AC004669) glutathione S-transferase [Arabidopsis thaliana]

Seq. No.	21236	Seq. ID	OJ991107_45.0203.C2
Gene No.	44330	Strand	-
Start	280	End	3124
Name	OJ991107_45.0203.C2.o1.tm	Method	TBLASTX:Maize
Start	274	End	3124
GI	none	Score	84
Exons	274..348, 360..461, 361..468, 466..732, 561..737, 2267..2422, 2268..2420, 2268..2429, 2270..2425, 2475..2549, 2497..2556, 2501..2548, 2648..2689, 2649..2690, 2651..2692, 2690..2812, 2690..2824, 2691..2825, 2819..3124, 2820..3116, 2830..3123		
Seq. No.	21236	Seq. ID	OJ991107_45.0203.C2
Gene No.	44330	Strand	-
Start	280	End	3124
Name	OJ991107_45.0203.C2.o1.gp	Method	AAT/GAP
Start	280	End	963
GI	23266_1.R1084	Score	1271
Exons	280..963		
GI Descrip.	'1575752 1.0e-46 (U70672) glutathione S-transferase [Arabidopsis thaliana]'		
Seq. No.	21236	Seq. ID	OJ991107_45.0203.C2
Gene No.	44330	Strand	-
Start	280	End	3124
Name	OJ991107_45.0203.C2.o1.tc	Method	TBLASTX:Cress
Start	280	End	3078
GI	none	Score	52
Exons	280..330, 373..741, 385..720, 2649..3077, 2741..2965, 2848..3078		
Seq. No.	21236	Seq. ID	OJ991107_45.0203.C2
Gene No.	44330	Strand	-
Start	280	End	3124
Name	OJ991107_45.0203.C2.o1.ts	Method	TBLASTX:Soybean
Start	373	End	3092
GI	none	Score	293
Exons	373..741, 382..741, 2298..2420, 2321..2416, 2649..3092, 2837..3076		
Seq. No.	21237	Seq. ID	OJ991107_45.0203.C3
Gene No.	44331	Strand	+
Start	1895	End	2779
Name	OJ991107_45.0203.C3.o1.gs	Method	GENSCAN
Start	1895	End	2779
GI	none	Score	.92
Exons	1895..2047, 2165..2213, 2304..2779		
Seq. No.	21237	Seq. ID	OJ991107_45.0203.C3
Gene No.	44331	Strand	+
Start	1895	End	2779
Name	OJ991107_45.0203.C3.o1.np	Method	AAT/NAP
Start	1898	End	2743

GI	2266412	Score	288
Exons	1898..2038, 2159..2213, 2304..2743		
GI Descrip.	(Y14251) glutathione S-transferase [Arabidopsis thaliana]		

  

Seq. No.	21237	Seq. ID	OJ991107_45.0203.C3
Gene No.	44331	Strand	+
Start	1895	End	2779
Name	OJ991107_45.0203.C3.o1.gp	Method	AAT/GAP
Start	1993	End	2669
GI	LIB3433-045-P1-K1-A4	Score	863
Exons	1993..2047, 2165..2213, 2304..2669		
GI Descrip.	'2290782 1.0e-24 (AF002692) glutathione S-transferase, class-phi [Solanum commersonii]'		

Seq. No.	21237	Seq. ID	OJ991107_45.0203.C3
Gene No.	44332	Strand	-
Start	3941	End	5558
Name	OJ991107_45.0203.C3.o1.tm	Method	TBLASTX:Maize
Start	1880	End	2876
GI	none	Score	251
Exons	1880..1957, 1888..2043, 1892..2047, 1995..2048, 2135..2239, 2164..2211, 2300..2482, 2302..2538, 2483..2647, 2530..2643, 2650..2778, 2651..2779, 2666..2779, 2814..2876		

Seq. No.	21237	Seq. ID	OJ991107_45.0203.C3
Gene No.	44332	Strand	-
Start	3941	End	5558
Name	OJ991107_45.0203.C3.o1.ts	Method	TBLASTX:Soybean
Start	1946	End	2665
GI	none	Score	111
Exons	1946..2047, 2303..2353, 2348..2665, 2368..2475, 2539..2622		

Seq. No.	21237	Seq. ID	OJ991107_45.0203.C3
Gene No.	44332	Strand	-
Start	3941	End	5558
Name	OJ991107_45.0203.C3.o1.tc	Method	TBLASTX:Cress
Start	2303	End	2740
GI	none	Score	40
Exons	2303..2353, 2368..2622, 2384..2641, 2669..2740, 2674..2739		

Seq. No.	21237	Seq. ID	OJ991107_45.0203.C3
Gene No.	44332	Strand	-
Start	3941	End	5558
Name	OJ991107_45.0203.C3.o2.gs	Method	GENSCAN
Start	3941	End	5558
GI	none	Score	.53
Exons	3941..4008, 4494..4675, 5362..5558		

Seq. No.	21238	Seq. ID	OJ991107_45.0203.C4
Gene No.	44333	Strand	+
Start	53	End	1889
Name	OJ991107_45.0203.C4.o1.gs	Method	GENSCAN
Start	53	End	1889
GI	none	Score	.86
Exons	53..171, 1816..1889		

Seq. No.	21238	Seq. ID	OJ991107_45.0203.C4
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Gene No.	44334	Strand	-
Start	1	End	1366
Name	OJ991107_45.0203.C4.o1.np	Method	AAT/NAP
Start	1	End	1366
GI	6907088	Score	584
Exons	1..333, 815..1053, 1229..1366		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	21239	Seq. ID	OJ991107_45.0203.C5
Gene No.	44335	Strand	+
Start	2602	End	3797
Name	OJ991107_45.0203.C5.o1.gp	Method	AAT/GAP
Start	2602	End	3383
GI	21736_1.R1084	Score	1165
Exons	2602..2838, 2913..2961, 3043..3383		
GI Descrip.	'1170088/sp P46440 GTH2_TOBAC 3.0e-14 GLUTATHIONE S-TRANSFERASE APIC (GST CLASS-PHI) >gi_676880_dbj_BAA06150_ (D29680) The expression is induced by aluminium treatment and Pi starvation. [Nicotiana tabacum] >gi_1094818_prf__2106387B Al-induced protein [Nicotiana tabacum]'		

Seq. No.	21239	Seq. ID	OJ991107_45.0203.C5
Gene No.	44335	Strand	+
Start	2602	End	3797
Name	OJ991107_45.0203.C5.o1.gs	Method	GENSCAN
Start	2683	End	3797
GI	none	Score	.67
Exons	2683..2838, 2913..2961, 3070..3797		

Seq. No.	21239	Seq. ID	OJ991107_45.0203.C5
Gene No.	44335	Strand	+
Start	2602	End	3797
Name	OJ991107_45.0203.C5.o1.np	Method	AAT/NAP
Start	2695	End	3659
GI	1170089	Score	306
Exons	2695..2842, 2998..3215, 3378..3659		
GI Descrip.	GLUTATHIONE S-TRANSFERASE ERD13 (GST CLASS PHI) gi 481822 pir  S39542 probable glutathione transferase (EC 2.5.1.18) (clone ERD13) - Arabidopsis thaliana gi 497789 dbj BAA04554  (D17673) glutathione S-transferase [Arabidopsis thaliana] gi 3201614 gb AAC20721.1  (AC004669) glutathione S-transferase [Arabidopsis thaliana]		

Seq. No.	21239	Seq. ID	OJ991107_45.0203.C5
Gene No.	44336	Strand	+
Start	9552	End	13283
Name	OJ991107_45.0203.C5.o4.gs	Method	GENSCAN
Start	9552	End	13283
GI	none	Score	.57
Exons	9552..9629, 9771..9848, 11904..11961, 12856..13283		

Seq. No.	21239	Seq. ID	OJ991107_45.0203.C5
Gene No.	44337	Strand	+
Start	15814	End	16852
Name	OJ991107_45.0203.C5.o6.gs	Method	GENSCAN
Start	15814	End	16852
GI	none	Score	.89

Exons 15814..15830, 16438..16852

Seq. No.	21239	Seq. ID	OJ991107_45.0203.C5
Gene No.	44338	Strand	+
Start	19573	End	23181
Name	OJ991107_45.0203.C5.o7.gs	Method	GENSCAN
Start	19573	End	23181
GI	none	Score	.45
Exons	19573..19697, 19699..19721, 20173..20316, 20355..21058, 21136..21315, 21622..22215, 23068..23181		

Seq. No.	21239	Seq. ID	OJ991107_45.0203.C5
Gene No.	44338	Strand	+
Start	19573	End	23181
Name	OJ991107_45.0203.C5.o3.np	Method	AAT/NAP
Start	20323	End	22242
GI	6633989	Score	1264
Exons	20323..21315, 21622..22242		
GI Descrip.	(AB036059) cytochrome P450 [Arabidopsis thaliana] gi 6899886 emb CAB71895.1  (AL138642) cytochrome p450 (CYP78A9) [Arabidopsis thaliana]		

Seq. No.	21239	Seq. ID	OJ991107_45.0203.C5
Gene No.	44338	Strand	+
Start	19573	End	23181
Name	OJ991107_45.0203.C5.o2.gp	Method	AAT/GAP
Start	21647	End	21966
GI	LIB3434-042-P1-K1-F4	Score	530
Exons	21647..21966		
GI Descrip.	'3831440 8.0e-28 (AC005819) putative cytochrome P450 [Arabidopsis thaliana] >gi_4415946_gb_AAD20176 (AC006418) putative cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	21239	Seq. ID	OJ991107_45.0203.C5
Gene No.	44339	Strand	-
Start	5013	End	6014
Name	OJ991107_45.0203.C5.o2.gs	Method	GENSCAN
Start	5013	End	6014
GI	none	Score	.79
Exons	5013..5198, 5289..6014		

Seq. No.	21239	Seq. ID	OJ991107_45.0203.C5
Gene No.	44339	Strand	-
Start	5013	End	6014
Name	OJ991107_45.0203.C5.o2.np	Method	AAT/NAP
Start	5043	End	5647
GI	6572059	Score	224
Exons	5043..5198, 5289..5339, 5546..5647		
GI Descrip.	(AL133452) putative protein [Arabidopsis thaliana]		

Seq. No.	21239	Seq. ID	OJ991107_45.0203.C5
Gene No.	44340	Strand	-
Start	13601	End	14601
Name	OJ991107_45.0203.C5.o5.gs	Method	GENSCAN
Start	13601	End	14601
GI	none	Score	.95
Exons	13601..13866, 14577..14601		



Seq. No.	21239	Seq. ID	OJ991107_45.0203.C5
Gene No.	44341	Strand	-
Start	22995	End	23147
Name	OJ991107_45.0203.C5.o3.gp	Method	AAT/GAP
Start	22995	End	23147
GI	2798111	Score	306
Exons	22995..23147		

Seq. No.	21239	Seq. ID	OJ991107_45.0203.C5
Gene No.	44342	Strand	-
Start	23241	End	23804
Name	OJ991107_45.0203.C5.o2.tm	Method	TBLASTX:Maize
Start	2678	End	3680
GI	none	Score	75
Exons	2678..2734, 2687..2737, 2691..2765, 2692..2838, 2694..2834, 2903..2959, 2907..2960, 2908..2961, 3032..3211, 3032..3238, 3039..3233, 3381..3680, 3497..3655		

Seq. No.	21239	Seq. ID	OJ991107_45.0203.C5
Gene No.	44342	Strand	-
Start	23241	End	23804
Name	OJ991107_45.0203.C5.o2.ts	Method	TBLASTX:Soybean
Start	2715	End	3656
GI	none	Score	119
Exons	2715..2834, 2716..2844, 3084..3170, 3447..3656		

Seq. No.	21239	Seq. ID	OJ991107_45.0203.C5
Gene No.	44342	Strand	-
Start	23241	End	23804
Name	OJ991107_45.0203.C5.o4.tm	Method	TBLASTX:Maize
Start	14196	End	23804
GI	none	Score	63
Exons	14196..14321, 23088..23159, 23090..23155, 23232..23333, 23233..23334, 23233..23334, 23678..23803, 23682..23804		

Seq. No.	21239	Seq. ID	OJ991107_45.0203.C5
Gene No.	44342	Strand	-
Start	23241	End	23804
Name	OJ991107_45.0203.C5.o3.tm	Method	TBLASTX:Maize
Start	20273	End	20629
GI	none	Score	83
Exons	20273..20404, 20298..20336, 20305..20355, 20363..20629, 20384..20476, 20389..20628, 20522..20629		

Seq. No.	21239	Seq. ID	OJ991107_45.0203.C5
Gene No.	44342	Strand	-
Start	23241	End	23804
Name	OJ991107_45.0203.C5.o1.ts	Method	TBLASTX:Soybean
Start	20369	End	22230
GI	none	Score	93
Exons	20369..20491, 20464..20490, 20512..20610, 20513..20611, 20599..20802, 20600..20857, 20756..20896, 20933..21001, 21100..21210, 21150..21248, 21238..21315, 21238..21318, 21621..22142, 21622..22146, 22156..22230, 22156..22230		

Seq. No.	21239	Seq. ID	OJ991107_45.0203.C5
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Gene No.	44342	Strand	-
Start	23241	End	23804
Name	OJ991107_45.0203.C5.o1.tm	Method	TBLASTX:Maize
Start	21062	End	22239
GI	none	Score	109
Exons	21062..21094, 21082..21210, 21100..21216, 21229..21315, 21621..21740, 21622..21741, 21739..22029, 21753..22028, 22015..22239, 22020..22238		

Seq. No.	21239	Seq. ID	OJ991107_45.0203.C5
Gene No.	44342	Strand	-
Start	23241	End	23804
Name	OJ991107_45.0203.C5.o1.tc	Method	TBLASTX:Cress
Start	21621	End	22158
GI	none	Score	162
Exons	21621..21851, 21622..21840, 21853..21987, 21856..21954, 22009..22158, 22014..22097		

Seq. No.	21239	Seq. ID	OJ991107_45.0203.C5
Gene No.	44342	Strand	-
Start	23241	End	23804
Name	OJ991107_45.0203.C5.o1.tw	Method	TBLASTX:Wheat
Start	21972	End	22230
GI	none	Score	282
Exons	21972..22145, 21973..22155, 22081..22155, 22106..22156, 22138..22227, 22144..22230		

Seq. No.	21239	Seq. ID	OJ991107_45.0203.C5
Gene No.	44342	Strand	-
Start	23241	End	23804
Name	OJ991107_45.0203.C5.o4.np	Method	AAT/NAP
Start	23241	End	23800
GI	2688839	Score	219
Exons	23241..23333, 23681..23800		
GI Descrip.	(AF003347) ATP phosphoribosyltransferase [Thlaspi goesingense]		

Seq. No.	21240	Seq. ID	OJ991107_45.0203.C6
Gene No.	44343	Strand	+
Start	320	End	742
Name	OJ991107_45.0203.C6.o1.gp	Method	AAT/GAP
Start	320	End	742
GI	none	Score	817
Exons	320..742		

Seq. No.	21240	Seq. ID	OJ991107_45.0203.C6
Gene No.	44344	Strand	-
Start	1	End	1080
Name	OJ991107_45.0203.C6.o1.np	Method	AAT/NAP
Start	1	End	1080
GI	6683619	Score	337
Exons	1..146, 629..712, 809..916, 1006..1080		
GI Descrip.	(AB025250) ATP phosphoribosyl transferase [Arabidopsis thaliana]		

Seq. No.	21240	Seq. ID	OJ991107_45.0203.C6
Gene No.	44344	Strand	-
Start	1	End	1080
Name	OJ991107_45.0203.C6.o1.gs	Method	GENSCAN

End	146
Score	.56

Seq. No.	21240	Seq. ID	OJ991107_45.0203.C6
Gene No.	44344	Strand	-
Start	1	End	1080
Name	OJ991107_45.0203.C6.o2.gp	Method	AAT/GAP
Start	756	End	1076
GI	LIB3431-026-P1-K1-D11	Score	422
Exons	756..916, 1006..1076		
GI Descrip.	'2688839 3.0e-54 (AF003347) ATP phosphoribosyltransferase [Thlaspi goesingense]'		

Seq. No.	21240	Seq. ID	OJ991107_45.0203.C6
Gene No.	44345	Strand	-
Start	1206	End	1532
Name	OJ991107_45.0203.C6.ol.tm	Method	TBLASTX:Maize
Start	30	End	1072
GI	none	Score	164
Exons	30..146, 37..147, 632..712, 633..710, 806..916, 808..966, 810..917, 988..1065, 1002..1067, 1003..1071, 1004..1072		

Seq. No.	21240	Seq. ID	OJ991107_45.0203.C6
Gene No.	44345	Strand	-
Start	1206	End	1532
Name	OJ991107_45.0203.C6.o1.ts	Method	TBLASTX:Soybean
Start	626	End	1074
GI	none	Score	65
Exons	626..712, 630..710, 800..916,		806..916, 1003..1074, 1007..1072

Seq. No.	21240	Seq. ID	OJ991107_45.0203.C6
Gene No.	44345	Strand	-
Start	1206	End	1532
Name	OJ991107_45.0203.C6.o3.gp	Method	AAT/GAP
Start	1206	End	1532
GI	86158.1.R1084	Score	396
Exons	1206..1380, 1405..1532		
GI Descrip.	'5295936/dbj AB026295.2 AB026295 5.0e-42 Oryza sativa genomic DNA, chromosome 6, clone:P0681F10, complete sequence'		

Seq. No.	21241	Seq. ID	OJ991107_45.0203.C7
Gene No.	44346	Strand	+
Start	41	End	4843
Name	OJ991107_45.0203.C7.o1.gs	Method	GENSCAN
Start	41	End	4843
GI	none	Score	.5
Exons	41..4228, 4271..4843		

Seq. No.	21241	Seq. ID	OJ991107_45.0203.C7
Gene No.	44346	Strand	+
Start	41	End	4843
Name	OJ991107_45.0203.C7.o1.np	Method	AAT/NAP
Start	41	End	4840
GI	5295971	Score	8114
Exons	41..4840		
GI Descrip.	(AB026295) EST D24315(R1718)	corresponds to a region of the	

predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]

Seq. No.	21241	Seq. ID	OJ991107_45.0203.C7
Gene No.	44346	Strand	+
Start	41	End	4843
Name	OJ991107_45.0203.C7.o2.gp	Method	AAT/GAP
Start	2330	End	2685
GI	uC-osflcyp139c12a1	Score	589
Exons	2330..2685		
GI Descrip.	'5295971/dbj BAA81872.1  3.0e-44 (AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]'		

Seq. No.	21241	Seq. ID	OJ991107_45.0203.C7
Gene No.	44347	Strand	+
Start	7147	End	7891
Name	OJ991107_45.0203.C7.o3.gs	Method	GENSCAN
Start	7147	End	7891
GI	none	Score	.52
Exons	7147..7212, 7261..7494, 7886..7891		

Seq. No.	21241	Seq. ID	OJ991107_45.0203.C7
Gene No.	44348	Strand	+
Start	9247	End	9533
Name	OJ991107_45.0203.C7.o2.np	Method	AAT/NAP
Start	9247	End	9533
GI	1169798	Score	82
Exons	9247..9379, 9453..9533		
GI Descrip.	GLUCOSE-6-PHOSPHATE ISOMERASE, CYTOSOLIC B (GPI-B) (PHOSPHOGLUCOSE ISOMERASE B) (PGI-B) (PHOSPHOHEXOSE ISOMERASE B) (PHI-B) gi 639686 dbj BAA08149  (D45218) phosphoglucose isomerase (Pgi-b) [Oryza sativa]		

Seq. No.	21241	Seq. ID	OJ991107_45.0203.C7
Gene No.	44349	Strand	-
Start	1886	End	2321
Name	OJ991107_45.0203.C7.o1.gp	Method	AAT/GAP
Start	1886	End	2321
GI	uC-osflM2020118f01a1	Score	809
Exons	1886..2321		
GI Descrip.	'5295971/dbj BAA81872.1  4.0e-64 (AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]'		

Seq. No.	21241	Seq. ID	OJ991107_45.0203.C7
Gene No.	44350	Strand	-
Start	4012	End	4466
Name	OJ991107_45.0203.C7.o3.gp	Method	AAT/GAP
Start	4012	End	4466
GI	36280_1.R1084	Score	862
Exons	4012..4466		
GI Descrip.	'5295971/dbj BAA81872.1  1.0e-81 (AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777)		

[Oryza sativa]'

Seq. No.	21241	Seq. ID	OJ991107_45.0203.C7
Gene No.	44351	Strand	-
Start	4835	End	5164
Name	OJ991107_45.0203.C7.o4.gp	Method	AAT/GAP
Start	4835	End	5164
GI	86158.1.R1084	Score	386
Exons	4835..5011, 5036..5164		
GI Descrip.	'5295936/dbj AB026295.2 AB026295 5.0e-42 Oryza sativa genomic DNA, chromosome 6, clone:P0681F10, complete sequence'		

Seq. No.	21241	Seq. ID	OJ991107_45.0203.C7
Gene No.	44352	Strand	-
Start	5184	End	6601
Name	OJ991107_45.0203.C7.o5.tm	Method	TBLASTX:Maize
Start	433	End	724
GI	none	Score	360
Exons	433..648, 434..724, 503..724		

Seq. No.	21241	Seq. ID	OJ991107_45.0203.C7
Gene No.	44352	Strand	-
Start	5184	End	6601
Name	OJ991107_45.0203.C7.o1.tm	Method	TBLASTX:Maize
Start	959	End	1678
GI	none	Score	399
Exons	959..1234, 976..1233, 1151..1246, 1216..1248, 1253..1678, 1254..1577, 1313..1678		

Seq. No.	21241	Seq. ID	OJ991107_45.0203.C7
Gene No.	44352	Strand	-
Start	5184	End	6601
Name	OJ991107_45.0203.C7.o1.tw	Method	TBLASTX:Wheat
Start	1603	End	2056
GI	none	Score	334
Exons	1603..1908, 1604..1969, 1607..1996, 1964..2056, 1976..2056		

Seq. No.	21241	Seq. ID	OJ991107_45.0203.C7
Gene No.	44352	Strand	-
Start	5184	End	6601
Name	OJ991107_45.0203.C7.o7.tm	Method	TBLASTX:Maize
Start	1693	End	1933
GI	none	Score	304
Exons	1693..1932, 1694..1933		

Seq. No.	21241	Seq. ID	OJ991107_45.0203.C7
Gene No.	44352	Strand	-
Start	5184	End	6601
Name	OJ991107_45.0203.C7.o4.ts	Method	TBLASTX:Soybean
Start	1994	End	2269
GI	none	Score	194
Exons	1994..2269, 2090..2170		

Seq. No.	21241	Seq. ID	OJ991107_45.0203.C7
Gene No.	44352	Strand	-
Start	5184	End	6601
Name	OJ991107_45.0203.C7.o3.tw	Method	TBLASTX:Wheat

Start.	2129	End	2680
GI	none	Score	105
Exons	2129..2269, 2327..2593, 2344..2493, 2596..2667, 2600..2680		

Seq. No.	21241	Seq. ID	OJ991107_45.0203.C7
Gene No.	44352	Strand	-
Start	5184	End	6601
Name	OJ991107_45.0203.C7.o2.tm	Method	TBLASTX:Maize
Start	2332	End	2758
GI	none	Score	700
Exons	2332..2757, 2336..2758, 2363..2758		

Seq. No.	21241	Seq. ID	OJ991107_45.0203.C7
Gene No.	44352	Strand	-
Start	5184	End	6601
Name	OJ991107_45.0203.C7.o1.ts	Method	TBLASTX:Soybean
Start	2363	End	2842
GI	none	Score	348
Exons	2363..2671, 2368..2658, 2399..2659, 2696..2842		

Seq. No.	21241	Seq. ID	OJ991107_45.0203.C7
Gene No.	44352	Strand	-
Start	5184	End	6601
Name	OJ991107_45.0203.C7.o2.tc	Method	TBLASTX:Cress
Start	2378	End	2818
GI	none	Score	203
Exons	2378..2674, 2428..2460, 2518..2664, 2696..2818		

Seq. No.	21241	Seq. ID	OJ991107_45.0203.C7
Gene No.	44352	Strand	-
Start	5184	End	6601
Name	OJ991107_45.0203.C7.o2.ts	Method	TBLASTX:Soybean
Start	3293	End	3787
GI	5509260	Score	223
Exons	3293..3577, 3373..3549, 3572..3787, 3610..3768		
GI Descrip.	-		

Seq. No.	21241	Seq. ID	OJ991107_45.0203.C7
Gene No.	44352	Strand	-
Start	5184	End	6601
Name	OJ991107_45.0203.C7.o6.tm	Method	TBLASTX:Maize
Start	3344	End	3637
GI	none	Score	289
Exons	3344..3595, 3351..3482, 3370..3549, 3572..3637, 3572..3634, 3595..3636		

Seq. No.	21241	Seq. ID	OJ991107_45.0203.C7
Gene No.	44352	Strand	-
Start	5184	End	6601
Name	OJ991107_45.0203.C7.o3.tc	Method	TBLASTX:Cress
Start	3415	End	3676
GI	none	Score	152
Exons	3415..3546, 3416..3589, 3572..3676		

Seq. No.	21241	Seq. ID	OJ991107_45.0203.C7
Gene No.	44352	Strand	-
Start	5184	End	6601

Name	OJ991107_45.0203.C7.o2.tw	Method	TBLASTX:Wheat
Start	3460	End	4012
GI	none	Score	120
Exons	3460..3549, 3461..3589, 3572..3802, 3611..3778, 3788..4012		

Seq. No.	21241	Seq. ID	OJ991107_45.0203.C7
Gene No.	44352	Strand	-
Start	5184	End	6601
Name	OJ991107_45.0203.C7.o3.tm	Method	TBLASTX:Maize
Start	3839	End	4230
GI	none	Score	603
Exons	3839..4228, 3839..4228, 3841..4230		

Seq. No.	21241	Seq. ID	OJ991107_45.0203.C7
Gene No.	44352	Strand	-
Start	5184	End	6601
Name	OJ991107_45.0203.C7.o5.tw	Method	TBLASTX:Wheat
Start	4013	End	4324
GI	none	Score	64
Exons	4013..4120, 4145..4324		

Seq. No.	21241	Seq. ID	OJ991107_45.0203.C7
Gene No.	44352	Strand	-
Start	5184	End	6601
Name	OJ991107_45.0203.C7.o1.tc	Method	TBLASTX:Cress
Start	4145	End	4807
GI	none	Score	254
Exons	4145..4432, 4207..4317, 4339..4431, 4441..4518, 4442..4522, 4589..4807, 4597..4803		

Seq. No.	21241	Seq. ID	OJ991107_45.0203.C7
Gene No.	44352	Strand	-
Start	5184	End	6601
Name	OJ991107_45.0203.C7.o3.ts	Method	TBLASTX:Soybean
Start	4166	End	4816
GI	none	Score	144
Exons	4166..4327, 4339..4500, 4340..4528, 4583..4816, 4597..4683		

Seq. No.	21241	Seq. ID	OJ991107_45.0203.C7
Gene No.	44352	Strand	-
Start	5184	End	6601
Name	OJ991107_45.0203.C7.o9.tm	Method	TBLASTX:Maize
Start	4232	End	4411
GI	none	Score	189
Exons	4232..4411, 4234..4410		

Seq. No.	21241	Seq. ID	OJ991107_45.0203.C7
Gene No.	44352	Strand	-
Start	5184	End	6601
Name	OJ991107_45.0203.C7.o4.tw	Method	TBLASTX:Wheat
Start	4358	End	4777
GI	none	Score	124
Exons	4358..4528, 4441..4518, 4574..4777, 4597..4764		

Seq. No.	21241	Seq. ID	OJ991107_45.0203.C7
Gene No.	44352	Strand	-
Start	5184	End	6601

Name	OJ991107_45.0203.C7.o4.tm	Method	TBLASTX:Maize
Start	4417	End	4806
GI	none	Score	504
Exons	4417..4524, 4418..4804, 4420..4806, 4449..4682, 4499..4804		

Seq. No.	21241	Seq. ID	OJ991107_45.0203.C7.
Gene No.	44352	Strand	-
Start	5184	End	6601
Name	OJ991107_45.0203.C7.o2.gs	Method	GENSCAN
Start	5184	End	6601
GI	none	Score	.79
Exons	5184..5207, 5260..5373, 6269..6601		

Seq. No.	21241	Seq. ID	OJ991107_45.0203.C7
Gene No.	44352	Strand	-
Start	5184	End	6601
Name	OJ991107_45.0203.C7.o5.gp	Method	AAT/GAP
Start	5259	End	6504
GI	LIB3431-026-P1-K1-D11	Score	395
Exons	5259..5373, 6269..6328, 6437..6504		
GI Descrip.	'2688839 3.0e-54 (AF003347) ATP phosphoribosyltransferase [Thlaspi goesingense]'		

Seq. No.	21241	Seq. ID	OJ991107_45.0203.C7
Gene No.	44352	Strand	-
Start	5184	End	6601
Name	OJ991107_45.0203.C7.o8.tm	Method	TBLASTX:Maize
Start	5263	End	6599
GI	none	Score	161
Exons	5263..5373, 5264..5371, 5267..5377, 6266..6310, 6270..6329, 6273..6329, 6432..6599, 6436..6492, 6437..6598		

Seq. No.	21242	Seq. ID	OJ991107_45.0203.C8
Gene No.	44353	Strand	+
Start	1	End	3952
Name	OJ991107_45.0203.C8.o1.np	Method	AAT/NAP
Start	1	End	3952
GI	4539658	Score	41
Exons	1..33, 1303..1436, 2879..2937, 3933..3952		
GI Descrip.	(AF061282) serine carboxypeptidase-like protein [Sorghum bicolor]		

Seq. No.	21243	Seq. ID	OJ991107_45.0203.C9
Gene No.	44354	Strand	-
Start	606	End	1003
Name	OJ991107_45.0203.C9.o1.gs	Method	GENSCAN
Start	606	End	1003
GI	none	Score	.51
Exons	606..1003		

Seq. No.	21244	Seq. ID	OJ991107_45.0203.C11
Gene No.	44355	Strand	+
Start	60	End	1516
Name	OJ991107_45.0203.C11.o1.gs	Method	GENSCAN
Start	60	End	1516
GI	none	Score	.86
Exons	60..258, 368..480, 588..766, 1046..1178, 1238..1516		



Seq. No.	21244	Seq. ID	OJ991107_45.0203.C11
Gene No.	44355	Strand	+
Start	60	End	1516
Name	OJ991107_45.0203.C11.o1.np	Method	AAT/NAP
Start	135	End	1513
GI	4539348	Score	609
Exons	135..258, 368..480, 588..766, 1046..1178, 1268..1513		
GI Descrip.	(AL035539) putative pollen allergen [Arabidopsis thaliana]		

Seq. No.	21244	Seq. ID	OJ991107_45.0203.C11
Gene No.	44355	Strand	+
Start	60	End	1516
Name	OJ991107_45.0203.C11.o1.gp	Method	AAT/GAP
Start	393	End	1333
GI	17663 1.R1084	Score	801
Exons	393..480, 588..766, 1046..1178, 1268..1333		
GI Descrip.	'4539348/emb CAB37496.1  2.0e-17 (AL035539) putative pollen allergen [Arabidopsis thaliana]'		

Seq. No.	21244	Seq. ID	OJ991107_45.0203.C11
Gene No.	44356	Strand	+
Start	8060	End	9355
Name	OJ991107_45.0203.C11.o4.gs	Method	GENSCAN
Start	8060	End	9355
GI	none	Score	.41
Exons	8060..8500, 8582..8691, 9178..9355		

Seq. No.	21244	Seq. ID	OJ991107_45.0203.C11
Gene No.	44357	Strand	-
Start	2270	End	2425
Name	OJ991107_45.0203.C11.o2.gs	Method	GENSCAN
Start	2270	End	2425
GI	none	Score	.8
Exons	2270..2290, 2321..2425		

Seq. No.	21244	Seq. ID	OJ991107_45.0203.C11
Gene No.	44358	Strand	-
Start	2944	End	7459
Name	OJ991107_45.0203.C11.o3.gs	Method	GENSCAN
Start	2944	End	7459
GI	none	Score	.52
Exons	2944..3059, 4213..4302, 5829..6126, 6939..7002, 7096..7152, 7244..7342, 7428..7459		

Seq. No.	21244	Seq. ID	OJ991107_45.0203.C11
Gene No.	44359	Strand	-
Start	9944	End	11046
Name	OJ991107_45.0203.C11.o1.tm	Method	TBLASTX:Maize
Start	176	End	1556
GI	none	Score	103
Exons	176..259, 192..266, 366..482, 448..501, 568..612, 582..680, 585..767, 587..685, 652..711, 1044..1103, 1045..1074, 1103..1159, 1104..1157, 1246..1509, 1265..1513, 1370..1552, 1371..1556		

Seq. No.	21244	Seq. ID	OJ991107_45.0203.C11
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Gene No.	44359	Strand	-
Start	9944	End	11046
Name	OJ991107_45.0203.C11.o1.ts	Method	TBLASTX:Soybean
Start	369	End	1516
GI	none	Score	53
Exons	369..413, 396..470, 448..483, 585..767, 590..685, 1044..1181, 1234..1398, 1265..1405, 1403..1516, 1408..1497		

Seq. No.	21244	Seq. ID	OJ991107_45.0203.C11
Gene No.	44359	Strand	-
Start	9944	End	11046
Name	OJ991107_45.0203.C11.o2.tc	Method	TBLASTX:Cress
Start	1044	End	1389
GI	none	Score	67
Exons	1044..1112, 1122..1181, 1273..1389, 1274..1387		

Seq. No.	21244	Seq. ID	OJ991107_45.0203.C11
Gene No.	44359	Strand	-
Start	9944	End	11046
Name	OJ991107_45.0203.C11.o1.tw	Method	TBLASTX:Wheat
Start	1339	End	1521
GI	none	Score	294
Exons	1339..1518, 1340..1519, 1441..1521		

Seq. No.	21244	Seq. ID	OJ991107_45.0203.C11
Gene No.	44359	Strand	-
Start	9944	End	11046
Name	OJ991107_45.0203.C11.o2.tm	Method	TBLASTX:Maize
Start	6657	End	7348
GI	none	Score	101
Exons	6657..6866, 6662..6868, 6689..6868, 6942..7001, 6943..6987, 7095..7154, 7096..7155, 7241..7348, 7241..7333, 7249..7347		

Seq. No.	21244	Seq. ID	OJ991107_45.0203.C11
Gene No.	44359	Strand	-
Start	9944	End	11046
Name	OJ991107_45.0203.C11.o1.tc	Method	TBLASTX:Cress
Start	6761	End	7341
GI	none	Score	69
Exons	6761..6868, 6762..6866, 6942..7013, 6943..7014, 6945..7016, 7095..7151, 7096..7152, 7244..7333, 7244..7330, 7249..7341		

Seq. No.	21244	Seq. ID	OJ991107_45.0203.C11
Gene No.	44359	Strand	-
Start	9944	End	11046
Name	OJ991107_45.0203.C11.o2.ts	Method	TBLASTX:Soybean
Start	6764	End	7341
GI	none	Score	92
Exons	6764..6868, 6765..6866, 6778..6867, 6938..6997, 6942..7004, 6942..7013, 7095..7151, 7244..7336, 7249..7341		

Seq. No.	21244	Seq. ID	OJ991107_45.0203.C11
Gene No.	44359	Strand	-
Start	9944	End	11046
Name	OJ991107_45.0203.C11.o5.gs	Method	GENSCAN
Start	9944	End	11046
GI	none	Score	.63

Exons 9944..10072, 10897..11046

Seq. No.	21245	Seq. ID	OJ991107_45.0203.C12
Gene No.	44360	Strand	+
Start	146	End	2487
Name	OJ991107_45.0203.C12.o1.gs	Method	GENSCAN
Start	146	End	2487
GI	none	Score	.94
Exons	146..283, 1417..2487		

Seq. No.	21245	Seq. ID	OJ991107_45.0203.C12
Gene No.	44361	Strand	-
Start	3358	End	5186
Name	OJ991107_45.0203.C12.o2.gs	Method	GENSCAN
Start	3358	End	5186
GI	none	Score	.67
Exons	3358..3366, 4995..5186		

Seq. No.	21246	Seq. ID	OJ991107_45.0203.C13
Gene No.	44362	Strand	+
Start	56	End	9133
Name	OJ991107_45.0203.C13.o1.gs	Method	GENSCAN
Start	56	End	8985
GI	none	Score	.77
Exons	56..176, 638..668, 1617..1772, 1870..1919, 2943..2998, 3038..3148, 4392..4482, 4866..4951, 4965..5279, 5375..5510, 6285..6418, 6844..6949, 7804..7889, 8281..8469, 8596..8787, 8872..8985		

Seq. No.	21246	Seq. ID	OJ991107_45.0203.C13
Gene No.	44362	Strand	+
Start	56	End	9133
Name	OJ991107_45.0203.C13.o1.np	Method	AAT/NAP
Start	4938	End	9133
GI	3080427	Score	1465
Exons	4938..5279, 5375..5510, 6285..6418, 6844..6949, 7804..7889, 8281..8469, 8596..8641, 8669..8787, 8872..8985, 9044..9133		
GI Descrip..	(AL022604) putative protein [Arabidopsis thaliana]		

Seq. No.	21246	Seq. ID	OJ991107_45.0203.C13
Gene No.	44362	Strand	+
Start	56	End	9133
Name	OJ991107_45.0203.C13.o1.tm	Method	TBLASTX:Maize
Start	4953	End	6418
GI	none	Score	124
Exons	4953..5048, 4964..5047, 5046..5276, 5129..5281, 5183..5281, 5374..5514, 5375..5515, 6278..6418, 6284..6418		

Seq. No.	21246	Seq. ID	OJ991107_45.0203.C13
Gene No.	44362	Strand	+
Start	56	End	9133
Name	OJ991107_45.0203.C13.o1.tc	Method	TBLASTX:Cress
Start	5052	End	6334
GI	none	Score	178
Exons	5052..5219, 5147..5203, 5211..5276, 5216..5281, 5374..5547, 5375..5515, 6278..6334		

Seq. No.	21246	Seq. ID	OJ991107_45.0203.C13
Gene No.	44362	Strand	+
Start	56	End	9133
Name	OJ991107_45.0203.C13.o1.tw	Method	TBLASTX:Wheat
Start	5085	End	5494
GI	none	Score	112
Exons	5085..5201, 5226..5276, 5374..5493, 5375..5494		

Seq. No.	21246	Seq. ID	OJ991107_45.0203.C13
Gene No.	44362	Strand	+
Start	56	End	9133
Name	OJ991107_45.0203.C13.o2.ts	Method	TBLASTX:Soybean
Start	5091	End	5515
GI	none	Score	231
Exons	5091..5276, 5127..5276, 5153..5281, 5192..5278, 5374..5514, 5375..5515		

Seq. No.	21246	Seq. ID	OJ991107_45.0203.C13
Gene No.	44362	Strand	+
Start	56	End	9133
Name	OJ991107_45.0203.C13.o1.ts	Method	TBLASTX:Soybean
Start	6311	End	9132
GI	none	Score	141
Exons	6311..6418, 6832..6951, 6841..6951, 6846..6953, 7800..7889, 7802..7882, 7820..7891, 8247..8471, 8275..8472, 8595..8627, 8596..8628, 8688..8786, 8688..8786, 8689..8793, 8871..8972, 8874..8969, 8875..8991, 8878..8985, 9076..9132, 9078..9131		

Seq. No.	21246	Seq. ID	OJ991107_45.0203.C13
Gene No.	44362	Strand	+
Start	56	End	9133
Name	OJ991107_45.0203.C13.o2.tc	Method	TBLASTX:Cress
Start	6338	End	9132
GI	none	Score	117
Exons	6338..6427, 6832..6951, 6841..6930, 6846..6953, 7800..7889, 7802..7888, 8275..8472, 8280..8453, 8689..8778, 8694..8777, 8871..8984, 8878..8985, 9075..9122, 9076..9132		

Seq. No.	21246	Seq. ID	OJ991107_45.0203.C13
Gene No.	44362	Strand	+
Start	56	End	9133
Name	OJ991107_45.0203.C13.o2.tw	Method	TBLASTX:Wheat
Start	6393	End	8403
GI	none	Score	177
Exons	6393..6428, 6811..6951, 6846..6953, 7800..7889, 7802..7891, 7802..7888, 8275..8403, 8280..8402		

Seq. No.	21246	Seq. ID	OJ991107_45.0203.C13
Gene No.	44362	Strand	+
Start	56	End	9133
Name	OJ991107_45.0203.C13.o2.tm	Method	TBLASTX:Maize
Start	6832	End	9132
GI	none	Score	203
Exons	6832..6951, 6842..6955, 7800..7886, 7802..7885, 7817..7891, 7818..7886, 8275..8481, 8280..8477, 8593..8628, 8593..8640, 8603..8632, 8685..8780, 8688..8789, 8689..8793, 8870..8980, 8871..8981, 8871..8984, 8878..8985, 9075..9092, 9090..9131,		

9091..9132

Seq. No.	21246	Seq. ID	OJ991107_45.0203.C13
Gene No.	44362	Strand	+
Start	56	End	9133
Name	OJ991107_45.0203.C13.o1.gp	Method	AAT/GAP
Start	7846	End	8944
GI	LIB3434-037-P1-K1-F11	Score	914
Exons	7846..7889, 8281..8469, 8596..8787, 8872..8944		
GI Descrip.	'3080427/emb CAA18746.1  6.0e-63 (AL022604) putative protein [Arabidopsis thaliana]'		

Seq. No.	21247	Seq. ID	OJ991107_45.0203.C14
Gene No.	44363	Strand	+
Start	933	End	2308
Name	OJ991107_45.0203.C14.o1.gp	Method	AAT/GAP
Start	933	End	2112
GI	974_1.R1084	Score	1486
Exons	933..1299, 1402..1513, 1670..2112		
GI Descrip.	'2109457 1.0e-158 (AF001501) chitinase [Oryza sativa]'		

Seq. No.	21247	Seq. ID	OJ991107_45.0203.C14
Gene No.	44363	Strand	+
Start	933	End	2308
Name	OJ991107_45.0203.C14.o2.np	Method	AAT/NAP
Start	947	End	2044
GI	2109457	Score	1190
Exons	947..1299, 1402..1513, 1670..2044		
GI Descrip.	(AF001501) chitinase [Oryza sativa]		

Seq. No.	21247	Seq. ID	OJ991107_45.0203.C14
Gene No.	44363	Strand	+
Start	933	End	2308
Name	OJ991107_45.0203.C14.o1.gs	Method	GENSCAN
Start	1027	End	2047
GI	none	Score	.68
Exons	1027..1299, 1402..1513, 1670..1751, 1763..2047		

Seq. No.	21247	Seq. ID	OJ991107_45.0203.C14
Gene No.	44363	Strand	+
Start	933	End	2308
Name	OJ991107_45.0203.C14.o2.gp	Method	AAT/GAP
Start	1160	End	2308
GI	974_1.R1084	Score	1548
Exons	1160..1299, 1402..1513, 1670..2308		
GI Descrip.	'2109457 1.0e-158 (AF001501) chitinase [Oryza sativa]'		

Seq. No.	21247	Seq. ID	OJ991107_45.0203.C14
Gene No.	44364	Strand	-
Start	306	End	2307
Name	OJ991107_45.0203.C14.o1.np	Method	AAT/NAP
Start	306	End	2307
GI	4680492	Score	140
Exons	306..546, 2259..2307		
GI Descrip.	(AF119222) putative reverse transcriptase [Oryza sativa]		

Seq. No.	21247	Seq. ID	OJ991107_45.0203.C14
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Gene No.	44364	Strand	-
Start	306	End	2307
Name	OJ991107_45.0203.C14.o1.tm	Method	TBLASTX:Maize
Start	1098	End	2041
GI	none	Score	157
Exons	1098..1286, 1109..1300, 1110..1301, 1277..1300, 1394..1513, 1395..1514, 1400..1519, 1663..1809, 1664..1810, 1665..1793, 1796..1906, 1811..2041, 1911..1946, 1942..2040		

Seq. No.	21247	Seq. ID	OJ991107_45.0203.C14
Gene No.	44364	Strand	-
Start	306	End	2307
Name	OJ991107_45.0203.C14.o1.tc	Method	TBLASTX:Cress
Start	1173	End	2044
GI	none	Score	167
Exons	1173..1301, 1277..1300, 1394..1468, 1395..1472, 1481..1507, 1482..1511, 1674..1793, 1691..1807, 1811..1927, 1949..2044		

Seq. No.	21247	Seq. ID	OJ991107_45.0203.C14
Gene No.	44364	Strand	-
Start	306	End	2307
Name	OJ991107_45.0203.C14.o2.ts	Method	TBLASTX:Soybean
Start	1173	End	1511
GI	none	Score	162
Exons	1173..1301, 1394..1459, 1395..1460, 1482..1511		

Seq. No.	21247	Seq. ID	OJ991107_45.0203.C14
Gene No.	44364	Strand	-
Start	306	End	2307
Name	OJ991107_45.0203.C14.o1.ts	Method	TBLASTX:Soybean
Start	1667	End	2035
GI	none	Score	171
Exons	1667..1807, 1668..1793, 1811..1927, 1813..1872, 1937..2035, 1948..2019		

Seq. No.	21248	Seq. ID	OJ991107_45.0203.C15
Gene No.	44365	Strand	+
Start	45	End	522
Name	OJ991107_45.0203.C15.o1.gp	Method	AAT/GAP
Start	45	End	522
GI	none	Score	917
Exons	45..522		

Seq. No.	21248	Seq. ID	OJ991107_45.0203.C15
Gene No.	44366	Strand	+
Start	8614	End	8961
Name	OJ991107_45.0203.C15.o2.gs	Method	GENSCAN
Start	8614	End	8961
GI	none	Score	.91
Exons	8614..8961		

Seq. No.	21248	Seq. ID	OJ991107_45.0203.C15
Gene No.	44367	Strand	+
Start	9639	End	15862
Name	OJ991107_45.0203.C15.o2.np	Method	AAT/NAP
Start	9639	End	14998
GI	6691197	Score	887

Exons	9639..9685, 11584..11622, 11899..11990, 12130..12323, 12993..13093, 14421..14546, 14821..14998	
GI Descrip.	(AC007534) F7F22.5 [Arabidopsis thaliana]	
Seq. No.	21248	Seq. ID OJ991107_45.0203.C15
Gene No.	44367	Strand +
Start	9639	End 15862
Name	OJ991107_45.0203.C15.o4.gs	Method GENSCAN
Start	11348	End 15862
GI	none	Score .7
Exons	11348..11622, 11894..11990, 12130..12262, 13012..13093, 14421..14546, 14821..14942, 15295..15334, 15527..15601, 15691..15862	
Seq. No.	21248	Seq. ID OJ991107_45.0203.C15
Gene No.	44368	Strand +
Start	16723	End 19206
Name	OJ991107_45.0203.C15.o5.gs	Method GENSCAN
Start	16723	End 19206
GI	none	Score .95
Exons	16723..17389, 18495..18615, 18708..18895, 19178..19206	
Seq. No.	21248	Seq. ID OJ991107_45.0203.C15
Gene No.	44368	Strand +
Start	16723	End 19206
Name	OJ991107_45.0203.C15.o3.np	Method AAT/NAP
Start	16729	End 18781
GI	2558660	Score 401
Exons	16729..17389, 18495..18599, 18665..18781	
GI Descrip.	(AC002354) unknown protein [Arabidopsis thaliana]	
Seq. No.	21248	Seq. ID OJ991107_45.0203.C15
Gene No.	44368	Strand +
Start	16723	End 19206
Name	OJ991107_45.0203.C15.o4.gp	Method AAT/GAP
Start	17112	End 18882
GI	11221_1.R1084	Score 1081
Exons	17112..17389, 18495..18615, 18708..18882	
GI Descrip.	'2558660 2.0e-27 (AC002354) No definition line found [Arabidopsis thaliana]'	
Seq. No.	21248	Seq. ID OJ991107_45.0203.C15
Gene No.	44369	Strand +
Start	19739	End 20200
Name	OJ991107_45.0203.C15.o5.gp	Method AAT/GAP
Start	19739	End 20200
GI	39068_1.R1084	Score 912
Exons	19739..20200	
GI Descrip.	'2435522 3.0e-16 (AF024504) contains similarity to other AMP-binding enzymes [Arabidopsis thaliana]'	
Seq. No.	21248	Seq. ID OJ991107_45.0203.C15
Gene No.	44370	Strand +
Start	30558	End 30994
Name	OJ991107_45.0203.C15.o9.gp	Method AAT/GAP
Start	30558	End 30994
GI	uC-osflcyp086d11a1	Score 874

Exons 30558..30994  
 GI Descrip. '4926866/gb|AAD32946.1|AC007509\_1 8.0e-14 (AC007509) putative  
 amp-binding protein [Arabidopsis thaliana]'

Seq. No. 21248 Seq. ID OJ991107\_45.0203.C15  
 Gene No. 44371 Strand -  
 Start 303 End 3642  
 Name OJ991107\_45.0203.C15.o1.gs Method GENSCAN  
 Start 303 End 3642  
 GI none Score .61  
 Exons 303..776, 1269..1555, 1658..1941, 2994..3142, 3276..3330,  
 3554..3642

Seq. No. 21248 Seq. ID OJ991107\_45.0203.C15  
 Gene No. 44371 Strand -  
 Start 303 End 3642  
 Name OJ991107\_45.0203.C15.o1.np Method AAT/NAP  
 Start 309 End 1814  
 GI 2264373 Score 574  
 Exons 309..644, 683..776, 1290..1555, 1658..1814  
 GI Descrip. (AC002354) NAM (no apical meristem)-like protein [Arabidopsis  
 thaliana]

Seq. No. 21248 Seq. ID OJ991107\_45.0203.C15  
 Gene No. 44371 Strand -  
 Start 303 End 3642  
 Name OJ991107\_45.0203.C15.o2.gp Method AAT/GAP  
 Start 1424 End 1968  
 GI LIB3432-002-P1-K1-B6 Score 846  
 Exons 1424..1555, 1658..1968  
 GI Descrip. '2264373 4.0e-40 (AC002354) putative NAM/no apical meristem  
 protein [Arabidopsis thaliana]'

Seq. No. 21248 Seq. ID OJ991107\_45.0203.C15  
 Gene No. 44372 Strand -  
 Start 9624 End 10072  
 Name OJ991107\_45.0203.C15.o3.gs Method GENSCAN  
 Start 9624 End 10072  
 GI none Score .49  
 Exons 9624..9728, 9878..10072

Seq. No. 21248 Seq. ID OJ991107\_45.0203.C15  
 Gene No. 44373 Strand -  
 Start 10719 End 11049  
 Name OJ991107\_45.0203.C15.o3.gp Method AAT/GAP  
 Start 10719 End 11049  
 GI LIB3433-056-P1-K1-H8 Score 551  
 Exons 10719..11049  
 GI Descrip. '5257279/dbj|BAA81778.1| 0.0e+00 (AP000364) Similar to  
 Transposon MAGGY gag and pol gene homologues. (L35053) [Oryza  
 sativa]'

Seq. No. 21248 Seq. ID OJ991107\_45.0203.C15  
 Gene No. 44374 Strand -  
 Start 19976 End 22750  
 Name OJ991107\_45.0203.C15.o6.gs Method GENSCAN  
 Start 19976 End 21719



GI	none	Score	.86
Exons	19976..21463, 21522..21719		
Seq. No.	21248	Seq. ID	OJ991107_45.0203.C15
Gene No.	44374	Strand	-
Start	19976	End	22750
Name	OJ991107_45.0203.C15.o4.np	Method	AAT/NAP
Start	20003	End	22750
GI	6598797	Score	1712
Exons	20003..21430, 21522..21804, 22690..22750		
GI Descrip.	(AF024504) putative acyl-CoA synthetase [Arabidopsis thaliana]		
Seq. No.	21248	Seq. ID	OJ991107_45.0203.C15
Gene No.	44374	Strand	-
Start	19976	End	22750
Name	OJ991107_45.0203.C15.o6.gp	Method	AAT/GAP
Start	21330	End	21865
GI	uC-osflcyp171e01b1	Score	870
Exons	21330..21430, 21522..21865		
GI Descrip.	'4926866/gb AAD32946.1 AC007509_1 1.0e-27 (AC007509) putative amp-binding protein [Arabidopsis thaliana]'		
Seq. No.	21248	Seq. ID	OJ991107_45.0203.C15
Gene No.	44375	Strand	-
Start	23902	End	28788
Name	OJ991107_45.0203.C15.o7.gs	Method	GENSCAN
Start	23902	End	26356
GI	none	Score	.54
Exons	23902..24564, 24594..25358, 25518..25593, 26211..26356		
Seq. No.	21248	Seq. ID	OJ991107_45.0203.C15
Gene No.	44375	Strand	-
Start	23902	End	28788
Name	OJ991107_45.0203.C15.o5.np	Method	AAT/NAP
Start	23929	End	28677
GI	6598797	Score	1630
Exons	23929..25358, 28327..28677		
GI Descrip.	(AF024504) putative acyl-CoA synthetase [Arabidopsis thaliana]		
Seq. No.	21248	Seq. ID	OJ991107_45.0203.C15
Gene No.	44375	Strand	-
Start	23902	End	28788
Name	OJ991107_45.0203.C15.o7.gp	Method	AAT/GAP
Start	25085	End	25609
GI	2801015	Score	948
Exons	25085..25609		
GI Descrip.	4926866/gb AAD32946.1 AC007509_1 8.0e-14 (AC007509) putative amp-binding protein [Arabidopsis thaliana]		
Seq. No.	21248	Seq. ID	OJ991107_45.0203.C15
Gene No.	44375	Strand	-
Start	23902	End	28788
Name	OJ991107_45.0203.C15.o6.np	Method	AAT/NAP
Start	25875	End	26353
GI	6227012	Score	90
Exons	25875..25905, 26199..26353		
GI Descrip.	(AC009513) Similar to gb X94625 amp-binding protein from		

Brassica napus and is a member of the PF00501 AMP-binding enzymes. [Arabidopsis thaliana]

Seq. No.	21248	Seq. ID	OJ991107_45.0203.C15
Gene No.	44375	Strand	-
Start	23902	End	28788
Name	OJ991107_45.0203.C15.o8.gs	Method	GENSCAN
Start	27242	End	28530
GI	none	Score	.59
Exons	27242..27286, 28327..28530		

Seq. No.	21248	Seq. ID	OJ991107_45.0203.C15
Gene No.	44375	Strand	-
Start	23902	End	28788
Name	OJ991107_45.0203.C15.o8.gp	Method	AAT/GAP
Start	28545	End	28788
GI	none	Score	428
Exons	28545..28788		

Seq. No.	21248	Seq. ID	OJ991107_45.0203.C15
Gene No.	44376	Strand	-
Start	29992	End	37478
Name	OJ991107_45.0203.C15.o2.ts	Method	TBLASTX:Soybean
Start	688	End	1817
GI	none	Score	85
Exons	688..774, 690..776, 1305..1556, 1318..1557, 1633..1815, 1656..1817		

Seq. No.	21248	Seq. ID	OJ991107_45.0203.C15
Gene No.	44376	Strand	-
Start	29992	End	37478
Name	OJ991107_45.0203.C15.o2.tm	Method	TBLASTX:Maize
Start	720	End	1769
GI	none	Score	116
Exons	720..773, 1221..1505, 1248..1418, 1318..1497, 1506..1544, 1507..1542, 1659..1769, 1660..1728		

Seq. No.	21248	Seq. ID	OJ991107_45.0203.C15
Gene No.	44376	Strand	-
Start	29992	End	37478
Name	OJ991107_45.0203.C15.o1.tw	Method	TBLASTX:Wheat
Start	1311	End	1544
GI	none	Score	78
Exons	1311..1541, 1318..1395, 1320..1403, 1432..1542, 1518..1544		

Seq. No.	21248	Seq. ID	OJ991107_45.0203.C15
Gene No.	44376	Strand	-
Start	29992	End	37478
Name	OJ991107_45.0203.C15.o2.tc	Method	TBLASTX:Cress
Start	1371	End	1806
GI	none	Score	222
Exons	1371..1556, 1375..1557, 1656..1799, 1657..1806		

Seq. No.	21248	Seq. ID	OJ991107_45.0203.C15
Gene No.	44376	Strand	-
Start	29992	End	37478
Name	OJ991107_45.0203.C15.o7.ts	Method	TBLASTX:Soybean

Start	8716	End	8973
GI	none	Score	86
Exons	8716..8859, 8829..8888, 8836..8973, 8871..8972		

Seq. No.	21248	Seq. ID	OJ991107_45.0203.C15
Gene No.	44376	Strand	-
Start	29992	End	37478
Name	OJ991107_45.0203.C15.o5.tm	Method	TBLASTX:Maize
Start	11901	End	12311
GI	none	Score	72
Exons	11901..12017, 11902..11988, 11903..12019, 11909..12004, 12127..12306, 12129..12311		

Seq. No.	21248	Seq. ID	OJ991107_45.0203.C15
Gene No.	44376	Strand	-
Start	29992	End	37478
Name	OJ991107_45.0203.C15.o4.tc	Method	TBLASTX:Cress
Start	13008	End	14929
GI	none	Score	142
Exons	13008..13091, 13008..13097, 13009..13092, 14239..14328, 14246..14332, 14247..14333, 14280..14336, 14411..14524, 14421..14546, 14421..14546, 14422..14547, 14819..14926, 14820..14927, 14820..14927, 14821..14928, 14822..14929		

Seq. No.	21248	Seq. ID	OJ991107_45.0203.C15
Gene No.	44376	Strand	-
Start	29992	End	37478
Name	OJ991107_45.0203.C15.o6.ts	Method	TBLASTX:Soybean
Start	15522	End	15796
GI	none	Score	128
Exons	15522..15602, 15527..15568, 15691..15795, 15692..15796		

Start	16813	End	18607
GI	none	Score	415
Exons	16813..17385, 16869..17381, 18539..18607		

Seq. No.	21248	Seq. ID	OJ991107_45.0203.C15
Gene No.	44376	Strand	-
Start	29992	End	37478
Name	OJ991107_45.0203.C15.o5.tc	Method	TBLASTX:Cress
Start	16831	End	17397
GI	none	Score	51
Exons	16831..16884, 16891..17271, 16902..17048, 17115..17228, 17302..17397		

Seq. No.	21248	Seq. ID	OJ991107_45.0203.C15
Gene No.	44376	Strand	-
Start	29992	End	37478
Name	OJ991107_45.0203.C15.o9.tm	Method	TBLASTX:Maize
Start	16833	End	17031
GI	none	Score	107
Exons	16833..16919, 16834..16920, 16911..17018, 16912..17031		

Seq. No.	21248	Seq. ID	OJ991107_45.0203.C15
Gene No.	44376	Strand	-
Start	29992	End	37478
Name	OJ991107_45.0203.C15.o8.tm	Method	TBLASTX:Maize
Start	17164	End	18825
GI	none	Score	187
Exons	17164..17346, 17176..17346, 17187..17348, 17192..17350, 17192..17350, 17316..17387, 17338..17388, 18493..18537, 18494..18544, 18513..18599, 18530..18619, 18539..18619, 18709..18825, 18709..18801, 18710..18823		

Seq. No.	21248	Seq. ID	OJ991107_45.0203.C15
Gene No.	44376	Strand	-
Start	29992	End	37478
Name	OJ991107_45.0203.C15.o5.ts	Method	TBLASTX:Soybean
Start	19961	End	24114
GI	none	Score	162
Exons	19961..20188, 19977..20186, 23893..24114, 23903..24112		

Seq. No.	21248	Seq. ID	OJ991107_45.0203.C15
Gene No.	44376	Strand	-
Start	29992	End	37478
Name	OJ991107_45.0203.C15.o1.tc	Method	TBLASTX:Cress
Start	19976	End	25011
GI	none	Score	164
Exons	19976..20239, 19977..20204, 20228..21088, 20256..20528, 20570..20611, 20673..21089, 23902..24165, 23903..24130, 24154..24585, 24175..24441, 24191..24580, 24585..25004, 24631..25011		

Seq. No.	21248	Seq. ID	OJ991107_45.0203.C15
Gene No.	44376	Strand	-
Start	29992	End	37478
Name	OJ991107_45.0203.C15.o3.tm	Method	TBLASTX:Maize
Start	20009	End	24468
GI	none	Score	90

Exons 20009..20158, 20010..20156, 20153..20383, 20154..20384,  
20258..20386, 20396..20533, 20397..20522, 23920..24081,  
23936..24067, 24079..24180, 24104..24319, 24238..24318,  
24316..24468, 24334..24468

Seq. No.	21248	Seq. ID	OJ991107_45.0203.C15
Gene No.	44376	Strand	-
Start	29992	End	37478
Name	OJ991107_45.0203.C15.o1.ts	Method	TBLASTX:Soybean
Start	20240	End	28521
GI	none	Score	234
Exons	20240..21154, 20262..20552, 20625..21122, 21269..21430, 21276..21431, 21534..21719, 21537..21719, 21613..21723, 24166..24585, 24179..24430, 24476..24577, 24594..25358, 24628..25041, 25204..25359, 26222..26347, 28417..28521		

Seq. No.	21248	Seq. ID	OJ991107_45.0203.C15
Gene No.	44376	Strand	-
Start	29992	End	37478
Name	OJ991107_45.0203.C15.o2.tw	Method	TBLASTX:Wheat
Start	20528	End	24674
GI	none	Score	83
Exons	20528..20752, 20573..20674, 24454..24585, 24476..24583, 24594..24674		

Seq. No.	21248	Seq. ID	OJ991107_45.0203.C15
Gene No.	44376	Strand	-
Start	29992	End	37478
Name	OJ991107_45.0203.C15.o1.tm	Method	TBLASTX:Maize
Start	20609	End	28503
GI	none	Score	94
Exons	20609..20752, 20616..20789, 20759..21154, 20766..21101, 21264..21431, 21266..21430, 21516..21701, 24535..24585, 24594..24674, 24684..25097, 24709..25098, 25140..25358, 25204..25359, 26222..26329, 28420..28503		

Seq. No.	21248	Seq. ID	OJ991107_45.0203.C15
Gene No.	44376	Strand	-
Start	29992	End	37478
Name	OJ991107_45.0203.C15.o3.tw	Method	TBLASTX:Wheat
Start	20901	End	24996
GI	none	Score	124
Exons	20901..21071, 20906..21070, 24825..24995, 24829..24996, 24922..24996		

Seq. No.	21248	Seq. ID	OJ991107_45.0203.C15
Gene No.	44376	Strand	-
Start	29992	End	37478
Name	OJ991107_45.0203.C15.o6.tc	Method	TBLASTX:Cress
Start	21266	End	26335
GI	none	Score	87
Exons	21266..21430, 21330..21431, 21516..21698, 25125..25358, 25129..25359, 26228..26335		

Seq. No.	21248	Seq. ID	OJ991107_45.0203.C15
Gene No.	44376	Strand	-
Start	29992	End	37478

Name	OJ991107_45.0203.C15.o9.gs	Method	GENSCAN
Start	29992	End	37443
GI	none	Score	.57
Exons	29992..30000, 30929..31064, 32374..32540, 33264..33464, 33664..33861, 34630..34872, 35671..35824, 36873..37040, 37421..37443		

Seq. No.	21248	Seq. ID	OJ991107_45.0203.C15
Gene No.	44376	Strand	-
Start	29992	End	37478
Name	OJ991107_45.0203.C15.o7.tm	Method	TBLASTX:Maize
Start	30039	End	30191
GI	none	Score	213
Exons	30039..30191, 30043..30189, 30044..30190		

Seq. No.	21248	Seq. ID	OJ991107_45.0203.C15
Gene No.	44376	Strand	-
Start	29992	End	37478
Name	OJ991107_45.0203.C15.o3.tc	Method	TBLASTX:Cress
Start	31401	End	34689
GI	none	Score	67
Exons	31401..31463, 31563..31640, 31563..31637, 32364..32546, 32365..32445, 32382..32567, 32764..32820, 32766..32879, 32801..32866, 33141..33176, 33150..33176, 33261..33365, 33262..33360, 33480..33545, 33496..33540, 33662..33862, 33664..33864, 33664..33864, 34630..34689		

GI Descrip. '4926867/gb|AAD32947.1|AC007509\_2 9.0e-72. (AC007509) serine acetyltransferase (GB:AF112303) [Arabidopsis thaliana]'

33664..33864

Seq. No.	21248	Seq. ID	OJ991107_45.0203.C15
Gene No.	44376	Strand	-
Start	29992	End	37478
Name	OJ991107_45.0203.C15.o8.np	Method	AAT/NAP
Start	36683	End	37478
GI	2992160	Score	384
Exons	36683..36773, 36873..37069, 37106..37478		
GI Descrip.	(AB012392) MuDR-like element [Oryza sativa]		

Seq. No.	21249	Seq. ID	OJ991107_45.0203.C16
Gene No.	44377	Strand	-
Start	1	End	647
Name	OJ991107_45.0203.C16.o1.np	Method	AAT/NAP
Start	1	End	647
GI	2498930	Score	758
Exons	1..416, 584..647		
GI Descrip.	DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi 1203794 (U18774) Sog [Drosophila melanogaster]		

Seq. No.	21250	Seq. ID	OJ991107_31.0204.C1
Gene No.	44378	Strand	+
Start	12485	End	15223
Name	OJ991107_31.0204.C1.o3.np	Method	AAT/NAP
Start	12485	End	15223
GI	6730082	Score	1253
Exons	12485..12550, 13597..13852, 13999..14142, 14260..14409, 14487..14744, 14898..14979, 15143..15223		
GI Descrip.	Chain A, A 30 Angstrom U-Shaped Catalytic Tunnel In The Crystal Structure Of Polyamine Oxidase gi 6730083 pdb 1B37 B Chain B, A 30 Angstrom U-Shaped Catalytic Tunnel In The Crystal Structure Of Polyamine Oxidase gi 6730084 pdb 1B37 C Chain C, A 30 Angstrom U-Shaped Catalytic Tunnel In The Crystal Structure Of Polyamine Oxidase		

Seq. No.	21250	Seq. ID	OJ991107_31.0204.C1
Gene No.	44378	Strand	+
Start	12485	End	15223
Name	OJ991107_31.0204.C1.o4.np	Method	AAT/NAP
Start	12638	End	15223
GI	6730082	Score	1253
Exons	12638..12664, 13597..13852, 13999..14142, 14260..14409, 14487..14744, 14898..14979, 15143..15223		
GI Descrip.	Chain A, A 30 Angstrom U-Shaped Catalytic Tunnel In The Crystal Structure Of Polyamine Oxidase gi 6730083 pdb 1B37 B Chain B, A 30 Angstrom U-Shaped Catalytic Tunnel In The Crystal Structure Of Polyamine Oxidase gi 6730084 pdb 1B37 C Chain C, A 30 Angstrom U-Shaped Catalytic Tunnel In The Crystal Structure Of Polyamine Oxidase		

Seq. No.	21250	Seq. ID	OJ991107_31.0204.C1
Gene No.	44378	Strand	+
Start	12485	End	15223
Name	OJ991107_31.0204.C1.o2.gs	Method	GENSCAN
Start	13628	End	14774
GI	none	Score	.79

Exons 13628..13852, 14223..14774

Seq. No.	21250	Seq. ID	OJ991107_31.0204.C1
Gene No.	44379	Strand	+
Start	19478	End	22093
Name	OJ991107_31.0204.C1.o5.np	Method	AAT/NAP
Start	19478	End	22093
GI	5777623	Score	289
Exons	19478..19588, 19620..19810, 20101..20358, 22068..22093		
GI Descrip.	(AJ245900) CAA303711.1 protein [Oryza sativa]		

Seq. No.	21250	Seq. ID	OJ991107_31.0204.C1
Gene No.	44380	Strand	+
Start	27468	End	35545
Name	OJ991107_31.0204.C1.o7.np	Method	AAT/NAP
Start	27468	End	35545
GI	6225822	Score	1827
Exons	27468..27603, 30419..30672, 33330..33475, 34037..34292, 34390..34533, 34651..34800, 34878..35135, 35245..35326, 35469..35545		
GI Descrip.	POLYAMINE OXIDASE PRECURSOR gi 3043529 emb CAA05249  (AJ002204) polyamine oxidase [Zea mays]		

Seq. No.	21250	Seq. ID	OJ991107_31.0204.C1
Gene No.	44380	Strand	+
Start	27468	End	35545
Name	OJ991107_31.0204.C1.o10.np	Method	AAT/NAP
Start	33315	End	35545
GI	6730082	Score	1443
Exons	33315..33475, 34037..34292, 34390..34533, 34651..34800, 34878..35135, 35245..35326, 35469..35545		
GI Descrip.	Chain A, A 30 Angstrom U-Shaped Catalytic Tunnel In The Crystal Structure Of Polyamine Oxidase gi 6730083 pdb 1B37 B Chain B, A 30 Angstrom U-Shaped Catalytic Tunnel In The Crystal Structure Of Polyamine Oxidase gi 6730084 pdb 1B37 C Chain C, A 30 Angstrom U-Shaped Catalytic Tunnel In The Crystal Structure Of Polyamine Oxidase		

Seq. No.	21250	Seq. ID	OJ991107_31.0204.C1
Gene No.	44380	Strand	+
Start	27468	End	35545
Name	OJ991107_31.0204.C1.o9.np	Method	AAT/NAP
Start	33316	End	35445
GI	6730082	Score	1350
Exons	33316..33475, 34037..34292, 34390..34533, 34651..34800, 34878..35135, 35245..35344, 35427..35445		
GI Descrip.	Chain A, A 30 Angstrom U-Shaped Catalytic Tunnel In The Crystal Structure Of Polyamine Oxidase gi 6730083 pdb 1B37 B Chain B, A 30 Angstrom U-Shaped Catalytic Tunnel In The Crystal Structure Of Polyamine Oxidase gi 6730084 pdb 1B37 C Chain C, A 30 Angstrom U-Shaped Catalytic Tunnel In The Crystal Structure Of Polyamine Oxidase		

Seq. No.	21250	Seq. ID	OJ991107_31.0204.C1
Gene No.	44381	Strand	-
Start	1	End	2492
Name	OJ991107_31.0204.C1.o1.np	Method	AAT/NAP



Start	1	End	2492
GI	6598399	Score	887
Exons	1..30, 710..2492		
GI Descrip.	(AC003952) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	21250	Seq. ID	OJ991107_31.0204.C1
Gene No.	44382	Strand	-
Start	16385	End	24660
Name	OJ991107_31.0204.C1.o3.gs	Method	GENSCAN
Start	16385	End	24660
GI	none	Score	.64
Exons	16385..16450, 16627..16735, 17378..17439, 19139..19281, 19737..19875, 20078..20171, 20218..20486, 20492..20803, 21081..21309, 21790..21846, 21948..22554, 22914..22969, 24194..24447, 24532..24660		

Seq. No.	21250	Seq. ID	OJ991107_31.0204.C1
Gene No.	44382	Strand	-
Start	16385	End	24660
Name	OJ991107_31.0204.C1.o6.np	Method	AAT/NAP
Start	19445	End	20629
GI	6907088	Score	578
Exons	19445..19827, 20078..20315, 20492..20629		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	21250	Seq. ID	OJ991107_31.0204.C1
Gene No.	44383	Strand	-
Start	32046	End	34786
Name	OJ991107_31.0204.C1.o8.np	Method	AAT/NAP
Start	32046	End	34786
GI	6498436	Score	69
Exons	32046..32150, 32685..32939, 34765..34786		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	21250	Seq. ID	OJ991107_31.0204.C1
Gene No.	44384	Strand	-
Start	36152	End	36958
Name	OJ991107_31.0204.C1.o5.gs	Method	GENSCAN
Start	36152	End	36958
GI	none	Score	.8
Exons	36152..36347, 36753..36958		

Seq. No.	21250	Seq. ID	OJ991107_31.0204.C1
Gene No.	44385	Strand	-
Start	38102	End	38436
Name	OJ991107_31.0204.C1.o3.tw	Method	TBLASTX:Wheat
Start	5	End	224
GI	none	Score	119
Exons	5..169, 78..224		

Seq. No.	21250	Seq. ID	OJ991107_31.0204.C1
Gene No.	44385	Strand	-
Start	38102	End	38436
Name	OJ991107_31.0204.C1.o2.tm	Method	TBLASTX:Maize
Start	1247	End	2234
GI	none	Score	91

Exons 1247..1276, 1298..1522, 1770..2087, 2070..2234

Seq. No.	21250	Seq. ID	OJ991107_31.0204.C1
Gene No.	44385	Strand	-
Start	38102	End	38436
Name	OJ991107_31.0204.C1.o2.tw	Method	TBLASTX:Wheat
Start	1262	End	1637
GI	none	Score	122
Exons	1262..1522, 1281..1520, 1524..1637		

Seq. No.	21250	Seq. ID	OJ991107_31.0204.C1
Gene No.	44385	Strand	-
Start	38102	End	38436
Name	OJ991107_31.0204.C1.o1.tw	Method	TBLASTX:Wheat
Start	1795	End	2190
GI	none	Score	143
Exons	1795..1983, 1797..1976, 1969..2190, 1971..2189		

Seq. No.	21250	Seq. ID	OJ991107_31.0204.C1
Gene No.	44385	Strand	-
Start	38102	End	38436
Name	OJ991107_31.0204.C1.o1.tm	Method	TBLASTX:Maize
Start	6930	End	35563
GI	none	Score	395
Exons	6930..7184, 6932..7183, 6942..7187, 6943..7212, 6944..7189, 8710..8907, 8729..8869, 8751..8870, 13600..13809, 13601..13810, 13754..13813, 13755..13814, 13804..13860, 13808..13861, 13817..13861, 13992..14141, 13996..14142, 13996..14142, 14260..14409, 14264..14410, 14265..14423, 14277..14423, 14478..14744, 14486..14743, 14660..14749, 14894..14983, 14895..14984, 14896..14991, 14901..14999, 14902..14991, 27554..27607, 30415..30669, 30417..30668, 30421..30672, 30423..30674, 33315..33473, 33320..33472, 33350..33475, 34040..34249, 34041..34250, 34241..34297, 34383..34532, 34387..34533, 34387..34533, 34651..34800, 34655..34801, 34656..34814, 34668..34814, 34869..35135, 34875..35054, 34877..35134, 34969..35139, 35066..35146, 35241..35330, 35242..35343, 35248..35334, 35459..35563, 35461..35559, 35462..35560		

Seq. No.	21250	Seq. ID	OJ991107_31.0204.C1
Gene No.	44385	Strand	-
Start	38102	End	38436
Name	OJ991107_31.0204.C1.o2.ts	Method	TBLASTX:Soybean
Start	6930	End	30602
GI	none	Score	187
Exons	6930..7112, 6932..7105, 6933..7106, 6934..7113, 30410..30592, 30415..30597, 30417..30590, 30418..30591, 30468..30602		

Seq. No.	21250	Seq. ID	OJ991107_31.0204.C1
Gene No.	44385	Strand	-
Start	38102	End	38436
Name	OJ991107_31.0204.C1.o1.ts	Method	TBLASTX:Soybean
Start	14080	End	35328
GI	none	Score	69
Exons	14080..14142, 14085..14141, 14263..14409, 14265..14408, 14484..14618, 14492..14617, 14628..14711, 14895..14981,		

14897..14980, 34471..34533, 34476..34532, 34654..34800,  
34656..34799, 34875..35009, 34883..35008, 35019..35102,  
35147..35182, 35242..35328, 35244..35327

Seq. No.	21250	Seq. ID	OJ991107_31.0204.C1
Gene No.	44385	Strand	-
Start	38102	End	38436
Name	OJ991107_31.0204.C1.o1.tc	Method	TBLASTX:Cress
Start	14338	End	35280
GI	none	Score	89
Exons	14338..14409, 14484..14618, 14631..14711, 14895..14933, 34729..34800, 34875..35009, 35022..35102, 35242..35280		

Seq. No.	21250	Seq. ID	OJ991107_31.0204.C1
Gene No.	44385	Strand	-
Start	38102	End	38436
Name	OJ991107_31.0204.C1.o6.gs	Method	GENSCAN
Start	38102	End	38436
GI	none	Score	.84
Exons	38102..38277, 38334..38436		

Seq. No.	21251	Seq. ID	OJ991107_31.0204.C3
Gene No.	44386	Strand	+
Start	10479	End	16385
Name	OJ991107_31.0204.C3.o2.gs	Method	GENSCAN
Start	10479	End	16385
GI	none	Score	.48
Exons	10479..10601, 11012..11122, 11136..11372, 12745..12991, 15447..15496, 16170..16385		

Seq. No.	21251	Seq. ID	OJ991107_31.0204.C3
Gene No.	44387	Strand	+
Start	17279	End	19590
Name	OJ991107_31.0204.C3.o3.gs	Method	GENSCAN
Start	17279	End	19590
GI	none	Score	.61
Exons	17279..17313, 17606..17737, 17966..18102, 18418..18581, 19327..19590		

Seq. No.	21251	Seq. ID	OJ991107_31.0204.C3
Gene No.	44388	Strand	+
Start	23204	End	26958
Name	OJ991107_31.0204.C3.o4.gs	Method	GENSCAN
Start	23204	End	26958
GI	none	Score	.91
Exons	23204..24324, 24939..25146, 26773..26958		

Seq. No.	21251	Seq. ID	OJ991107_31.0204.C3
Gene No.	44388	Strand	+
Start	23204	End	26958
Name	OJ991107_31.0204.C3.o2.np	Method	AAT/NAP
Start	23228	End	24325
GI	6587859	Score	471
Exons	23228..23576, 23628..24325		
GI Descrip.	(AC012680) unknown protein [Arabidopsis thaliana]		

Seq. No.	21251	Seq. ID	OJ991107_31.0204.C3
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Gene No.	44389	Strand	-
Start	4311	End	4542
Name	OJ991107_31.0204.C3.o1.np	Method	AAT/NAP
Start	4311	End	4542
GI	6665553	Score	112
Exons	4311..4542		
GI Descrip.	(AC013289) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	21251	Seq. ID	OJ991107_31.0204.C3
Gene No.	44390	Strand	-
Start	16473	End	16572
Name	OJ991107_31.0204.C3.o1.gp	Method	AAT/GAP
Start	16473	End	16572
GI	none	Score	176
Exons	16473..16572		

Seq. No.	21252	Seq. ID	OJ991107_31.0204.C4
Gene No.	44391	Strand	-
Start	158	End	684
Name	OJ991107_31.0204.C4.o1.gp	Method	AAT/GAP
Start	135	End	622
GI	57783_1.R1084	Score	593
Exons	135..278, 355..487, 573..622		
GI Descrip.	'3080443/emb CAA18760.1  2.0e-21 (AL022605) putative protein [Arabidopsis thaliana]'		

Seq. No.	21252	Seq. ID	OJ991107_31.0204.C4
Gene No.	44391	Strand	-
Start	158	End	684
Name	OJ991107_31.0204.C4.o1.tm	Method	TBLASTX:Maize
Start	152	End	678
GI	none	Score	147
Exons	152..277, 153..281, 334..486, 352..489, 354..488, 542..664, 574..678, 574..678		

Seq. No.	21252	Seq. ID	OJ991107_31.0204.C4
Gene No.	44391	Strand	-
Start	158	End	684
Name	OJ991107_31.0204.C4.o1.gs	Method	GENSCAN
Start	158	End	684
GI	none	Score	.96
Exons	158..278, 355..487, 573..684		

Seq. No.	21252	Seq. ID	OJ991107_31.0204.C4
Gene No.	44391	Strand	-
Start	158	End	684
Name	OJ991107_31.0204.C4.o1.ts	Method	TBLASTX:Soybean
Start	222	End	666
GI	none	Score	54
Exons	222..281, 226..282, 227..277, 351..488, 352..489, 354..488, 577..660, 577..666		

Seq. No.	21253	Seq. ID	OJ991107_31.0204.C5
Gene No.	44392	Strand	-
Start	325	End	631
Name	OJ991107_31.0204.C5.o1.tm	Method	TBLASTX:Maize
Start	292	End	631

GI	none	Score	52
Exons	292..399, 302..376, 400..459, 401..460, 466..624, 472..630, 485..631		
Seq. No.	21253	Seq. ID	OJ991107_31.0204.C5
Gene No.	44392	Strand	-
Start	325	End	631
Name	OJ991107_31.0204.C5.o1.np	Method	AAT/NAP
Start	325	End	631
GI	4335720	Score	65
Exons	325..631		
GI Descrip.	(AC006248) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	21253	Seq. ID	OJ991107_31.0204.C5
Gene No.	44392	Strand	-
Start	325	End	631
Name	OJ991107_31.0204.C5.o1.tw	Method	TBLASTX:Wheat
Start	349	End	631
GI	none	Score	115
Exons	349..630, 379..621, 419..631		

Seq. No.	21254	Seq. ID	OJ991107_31.0204.C6
Gene No.	44393	Strand	+
Start	3060	End	3147
Name	OJ991107_31.0204.C6.o1.gs	Method	GENSCAN
Start	3060	End	3147
GI	none	Score	.42
Exons	3060..3147		

Seq. No.	21255	Seq. ID	OJ991107_31.0204.C7
Gene No.	44394	Strand	+
Start	261	End	7211
Name	OJ991107_31.0204.C7.o1.gs	Method	GENSCAN
Start	261	End	7211
GI	none	Score	.51
Exons	261..959, 2041..2248, 4796..4930, 6314..6561, 6638..6957, 6968..7211		

Seq. No.	21255	Seq. ID	OJ991107_31.0204.C7
Gene No.	44394	Strand	+
Start	261	End	7211
Name	OJ991107_31.0204.C7.o1.np	Method	AAT/NAP
Start	627	End	968
GI	6691127	Score	145
Exons	627..968		
GI Descrip.	(AF214107) DnaJ-like protein [Arabidopsis thaliana]		

Seq. No.	21255	Seq. ID	OJ991107_31.0204.C7
Gene No.	44394	Strand	+
Start	261	End	7211
Name	OJ991107_31.0204.C7.o2.np	Method	AAT/NAP
Start	1947	End	2261
GI	6539588	Score	149
Exons	1947..2261		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	21256	Seq. ID	OJ991107_31.0204.C8
Gene No.	44395	Strand	+
Start	217	End	1834
Name	OJ991107_31.0204.C8.o1.gs	Method	GENSCAN
Start	217	End	1678
GI	none	Score	.95
Exons	217..1174, 1461..1678		

Seq. No.	21256	Seq. ID	OJ991107_31.0204.C8
Gene No.	44395	Strand	+
Start	217	End	1834
Name	OJ991107_31.0204.C8.o2.np	Method	AAT/NAP
Start	235	End	1693
GI	3080448	Score	340
Exons	235..689, 883..1234, 1467..1693		
GI Descrip.	(AL022605) putative protein [Arabidopsis thaliana]		

Seq. No.	21256	Seq. ID	OJ991107_31.0204.C8
Gene No.	44395	Strand	+
Start	217	End	1834
Name	OJ991107_31.0204.C8.o1.tm	Method	TBLASTX:Maize
Start	1045	End	1693
GI	none	Score	125
Exons	1045..1176, 1045..1176, 1431..1622, 1474..1692, 1475..1693		

Seq. No.	21256	Seq. ID	OJ991107_31.0204.C8
Gene No.	44395	Strand	+
Start	217	End	1834
Name	OJ991107_31.0204.C8.o1.gp	Method	AAT/GAP
Start	1590	End	1834
GI	2796448	Score	440
Exons	1590..1834		

Seq. No.	21257	Seq. ID	OJ991107_31.0204.C9
Gene No.	44396	Strand	+
Start	1912	End	2088
Name	OJ991107_31.0204.C9.o1.gs	Method	GENSCAN
Start	1912	End	2088
GI	none	Score	.6
Exons	1912..2088		

Seq. No.	21257	Seq. ID	OJ991107_31.0204.C9
Gene No.	44397	Strand	+
Start	2976	End	6230
Name	OJ991107_31.0204.C9.o2.gs	Method	GENSCAN
Start	2976	End	5718
GI	none	Score	.8
Exons	2976..3014, 3760..4080, 4352..4473, 4944..5718		

Seq. No.	21257	Seq. ID	OJ991107_31.0204.C9
Gene No.	44397	Strand	+
Start	2976	End	6230
Name	OJ991107_31.0204.C9.o1.gp	Method	AAT/GAP
Start	4196	End	5156
GI	none	Score	1863
Exons	4196..5156		

Seq. No.	21257	Seq. ID	OJ991107_31.0204.C9
Gene No.	44397	Strand	+
Start	2976	End	6230
Name	OJ991107_31.0204.C9.o1.np	Method	AAT/NAP
Start	5038	End	5709
GI	2281633	Score	402
Exons	5038..5709		
GI Descrip.	(AF003097) AP2 domain containing protein RAP2.4 [Arabidopsis thaliana]		

Seq. No.	21257	Seq. ID	OJ991107_31.0204.C9
Gene No.	44397	Strand	+
Start	2976	End	6230
Name	OJ991107_31.0204.C9.o2.gp	Method	AAT/GAP
Start	5328	End	6230
GI	none	Score	1754
Exons	5328..6230		

Seq. No.	21257	Seq. ID	OJ991107_31.0204.C9
Gene No.	44398	Strand	+
Start	13252	End	14172
Name	OJ991107_31.0204.C9.o5.gs	Method	GENSCAN
Start	13252	End	14172
GI	none	Score	.77
Exons	13252..13305, 14149..14172		

Seq. No.	21257	Seq. ID	OJ991107_31.0204.C9
Gene No.	44399	Strand	+
Start	16214	End	17025
Name	OJ991107_31.0204.C9.o6.gs	Method	GENSCAN
Start	16214	End	17025
GI	none	Score	.89
Exons	16214..16471, 16522..17025		

Seq. No.	21257	Seq. ID	OJ991107_31.0204.C9
Gene No.	44400	Strand	+
Start	22266	End	26316
Name	OJ991107_31.0204.C9.o3.np	Method	AAT/NAP
Start	22266	End	26316
GI	4680183	Score	140
Exons	22266..22300, 26197..26316		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	21257	Seq. ID	OJ991107_31.0204.C9
Gene No.	44401	Strand	-
Start	7982	End	8357
Name	OJ991107_31.0204.C9.o3.gs	Method	GENSCAN
Start	7982	End	8357
GI	none	Score	.89
Exons	7982..8113, 8193..8357		

Seq. No.	21257	Seq. ID	OJ991107_31.0204.C9
Gene No.	44402	Strand	-
Start	10268	End	11008
Name	OJ991107_31.0204.C9.o1.tm	Method	TBLASTX:Maize
Start	5008	End	5415
GI	none	Score	48

Exons 5008..5055, 5083..5109, 5085..5108, 5155..5343, 5166..5240,  
5212..5262, 5349..5408, 5362..5415

Seq. No.	21257	Seq. ID	OJ991107_31.0204.C9
Gene No.	44402	Strand	-
Start	10268	End	11008
Name	OJ991107_31.0204.C9.o1.ts	Method	TBLASTX:Soybean
Start	5011	End	5703
GI	none	Score	39
Exons	5011..5109, 5148..5240, 5152..5346, 5365..5415, 5656..5703		

Seq. No.	21257	Seq. ID	OJ991107_31.0204.C9
Gene No.	44402	Strand	-
Start	10268	End	11008
Name	OJ991107_31.0204.C9.o1.tc	Method	TBLASTX:Cress
Start	5151	End	5415
GI	none	Score	240
Exons	5151..5240, 5152..5346, 5365..5415		

Seq. No.	21257	Seq. ID	OJ991107_31.0204.C9
Gene No.	44402	Strand	-
Start	10268	End	11008
Name	OJ991107_31.0204.C9.o2.tm	Method	TBLASTX:Maize
Start	5605	End	6030
GI	none	Score	183
Exons	5605..5709, 5607..5708, 5787..5810, 5789..5812, 5865..5921, 5928..6011, 5965..6012, 5968..6012, 6013..6030		

Seq. No.	21257	Seq. ID	OJ991107_31.0204.C9
Gene No.	44402	Strand	-
Start	10268	End	11008
Name	OJ991107_31.0204.C9.o4.gs	Method	GENSCAN
Start	10268	End	11008
GI	none	Score	.53
Exons	10268..10455, 10640..10694, 10922..11008		

Seq. No.	21258	Seq. ID	OJ991107_31.0204.C10
Gene No.	44403	Strand	+
Start	11448	End	11504
Name	OJ991107_31.0204.C10.o4.gs	Method	GENSCAN
Start	11448	End	11504
GI	none	Score	.72
Exons	11448..11504		

Seq. No.	21258	Seq. ID	OJ991107_31.0204.C10
Gene No.	44404	Strand	-
Start	1	End	3788
Name	OJ991107_31.0204.C10.o1.np	Method	AAT/NAP
Start	1	End	3788
GI	3319345	Score	658
Exons	1..1073, 1186..1640, 1739..1951, 3766..3788		
GI Descrip.	(AF077407) contains similarity to maize transposon MuDR (GB:M76978) [Arabidopsis thaliana]		

Seq. No.	21258	Seq. ID	OJ991107_31.0204.C10
Gene No.	44404	Strand	-
Start	1	End	3788



Name	OJ991107_31.0204.C10.o1.gs	Method	GENSCAN
Start	225	End	3239
GI	none	Score	.78
Exons	225..360, 783..1073, 1186..2729, 3194..3239		
Seq. No.	21258	Seq. ID	OJ991107_31.0204.C10
Gene No.	44405	Strand	-
Start	5231	End	5627
Name	OJ991107_31.0204.C10.o2.gs	Method	GENSCAN
Start	5231	End	5627
GI	none	Score	.54
Exons	5231..5315, 5404..5627		
Seq. No.	21258	Seq. ID	OJ991107_31.0204.C10
Gene No.	44406	Strand	-
Start	5808	End	6738
Name	OJ991107_31.0204.C10.o1.ts	Method	TBLASTX:Soybean
Start	696	End	1035
GI	none	Score	44
Exons	696..1034, 741..926, 901..1035		
Seq. No.	21258	Seq. ID	OJ991107_31.0204.C10
Gene No.	44406	Strand	-
Start	5808	End	6738
Name	OJ991107_31.0204.C10.o3.gs	Method	GENSCAN
Start	5808	End	6738
GI	none	Score	.63
Exons	5808..5978, 6628..6738		
Seq. No.	21259	Seq. ID	OJ991107_31.0204.C11
Gene No.	44407	Strand	+
Start	1	End	4124
Name	OJ991107_31.0204.C11.o1.gp	Method	AAT/GAP
Start	1	End	436
GI	3768066	Score	398
Exons	1..44, 144..284, 366..436		
GI Descrip.	2944180 2.0e-17 (AF007779) trehalose-6-phosphate phosphatase [Arabidopsis thaliana]		
Seq. No.	21259	Seq. ID	OJ991107_31.0204.C11
Gene No.	44407	Strand	+
Start	1	End	4124
Name	OJ991107_31.0204.C11.o1.np	Method	AAT/NAP
Start	1	End	1525
GI	6587856	Score	752
Exons	1..54, 154..276, 358..698, 781..928, 1008..1078, 1293..1385, 1469..1525		
GI Descrip.	(AC012680) trehalose-6-phosphate phosphatase (AtTPPB) [Arabidopsis thaliana]		
Seq. No.	21259	Seq. ID	OJ991107_31.0204.C11
Gene No.	44407	Strand	+
Start	1	End	4124
Name	OJ991107_31.0204.C11.o1.tw	Method	TBLASTX:Wheat
Start	2	End	476
GI	none	Score	76
Exons	2..43, 3..71, 3..44, 143..283, 144..287, 342..431, 365..436,		

366..437, 420..473, 434..475, 435..476

Seq. No.	21259	Seq. ID	OJ991107_31.0204.C11
Gene No.	44407	Strand	+
Start	1	End	4124
Name	OJ991107_31.0204.C11.o1.tc	Method	TBLASTX:Cress
Start	21	End	1394
GI	none	Score	36
Exons	21..68, 147..278, 152..277, 351..497, 363..533, 386..505, 543..698, 551..697, 780..950, 784..930, 956..1081, 1006..1080, 1332..1394		

Seq. No.	21259	Seq. ID	OJ991107_31.0204.C11
Gene No.	44407	Strand	+
Start	1	End	4124
Name	OJ991107_31.0204.C11.o1.gs	Method	GENSCAN
Start	42	End	4124
GI	none	Score	.83
Exons	42..284, 366..698, 781..928, 1008..1078, 1190..1237, 1293..1385, 1996..2070, 4059..4124		

Seq. No.	21259	Seq. ID	OJ991107_31.0204.C11
Gene No.	44407	Strand	+
Start	1	End	4124
Name	OJ991107_31.0204.C11.o1.tm	Method	TBLASTX:Maize
Start	116	End	1093
GI	none	Score	181
Exons	116..274, 147..281, 342..497, 363..533, 365..505, 546..698, 551..694, 778..930, 789..929, 847..936, 864..932, 973..1080, 974..1093		

Seq. No.	21259	Seq. ID	OJ991107_31.0204.C11
Gene No.	44407	Strand	+
Start	1	End	4124
Name	OJ991107_31.0204.C11.o1.ts	Method	TBLASTX:Soybean
Start	150	End	837
GI	none	Score	165
Exons	150..278, 152..277, 363..506, 389..505, 540..698, 542..715, 778..837		

Seq. No.	21259	Seq. ID	OJ991107_31.0204.C11
Gene No.	44407	Strand	+
Start	1	End	4124
Name	OJ991107_31.0204.C11.o2.tw	Method	TBLASTX:Wheat
Start	778	End	1501
GI	none	Score	203
Exons	778..930, 780..929, 956..1081, 1003..1080, 1322..1390, 1331..1390, 1332..1394, 1433..1501		

Seq. No.	21260	Seq. ID	OJ991107_31.0204.C13
Gene No.	44408	Strand	-
Start	980	End	3456
Name	OJ991107_31.0204.C13.o1.gs	Method	GENSCAN
Start	980	End	2633
GI	none	Score	.79
Exons	980..1568, 1744..1967, 2628..2633		

Seq. No.	21260	Seq. ID	OJ991107_31.0204.C13
Gene No.	44408	Strand	-
Start	980	End	3456
Name	OJ991107_31.0204.C13.o1.np	Method	AAT/NAP
Start	992	End	3456
GI	3080448	Score	396
Exons	992..1568, 1744..1985, 3437..3456		
GI Descrip.	(AL022605) putative protein [Arabidopsis thaliana]		

Seq. No.	21261	Seq. ID	OJ991107_31.0204.C14
Gene No.	44409	Strand	+
Start	491	End	1074
Name	OJ991107_31.0204.C14.o1.gs	Method	GENSCAN
Start	491	End	1020
GI	none	Score	.83
Exons	491..550, 718..1020		

Seq. No.	21261	Seq. ID	OJ991107_31.0204.C14
Gene No.	44409	Strand	+
Start	491	End	1074
Name	OJ991107_31.0204.C14.o1.np	Method	AAT/NAP
Start	491	End	1074
GI	2498930	Score	614
Exons	491..550, 718..1074		
GI Descrip.	DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi 1203794 (U18774) Sog [Drosophila melanogaster]		

Seq. No.	21262	Seq. ID	OJ991107_31.0204.C15
Gene No.	44410	Strand	+
Start	1	End	1779
Name	OJ991107_31.0204.C15.o1.np	Method	AAT/NAP
Start	1	End	1779
GI	3980411	Score	64
Exons	1..94, 1083..1561, 1711..1779		
GI Descrip.	(AC004561) putative proline-rich protein [Arabidopsis thaliana]		

Seq. No.	21262	Seq. ID	OJ991107_31.0204.C15
Gene No.	44410	Strand	+
Start	1	End	1779
Name	OJ991107_31.0204.C15.o1.gp	Method	AAT/GAP
Start	476	End	706
GI	57783 1.R1084	Score	398
Exons	476..706		
GI Descrip.	'3080443/emb CAA18760.1  2.0e-21 (AL022605) putative protein [Arabidopsis thaliana]'		

Seq. No.	21262	Seq. ID	OJ991107_31.0204.C15
Gene No.	44410	Strand	+
Start	1	End	1779
Name	OJ991107_31.0204.C15.o1.gs	Method	GENSCAN
Start	752	End	1681
GI	none	Score	.48
Exons	752..930, 1083..1681		

Seq. No.	21263	Seq. ID	OJ991107_31.0204.C18
Gene No.	44411	Strand	-
Start	1	End	725

Name	OJ991107_31.0204.C18.o1.np	Method	AAT/NAP
Start	1	End	725
GI	6730082	Score	523
Exons	1..101, 179..328, 446..589, 686..725		
GI Descrip.	Chain A, A 30 Angstrom U-Shaped Catalytic Tunnel In The Crystal Structure Of Polyamine Oxidase gi 6730083 pdb 1B37 B Chain B, A 30 Angstrom U-Shaped Catalytic Tunnel In The Crystal Structure Of Polyamine Oxidase gi 6730084 pdb 1B37 C Chain C, A 30 Angstrom U-Shaped Catalytic Tunnel In The Crystal Structure Of Polyamine Oxidase		

Seq. No.	21263	Seq. ID	OJ991107_31.0204.C18
Gene No.	44411	Strand	-
Start	1	End	725
Name	OJ991107_31.0204.C18.o1.tm	Method	TBLASTX:Maize
Start	1	End	592
GI	none	Score	142
Exons	1..102, 1..105, 3..110, 165..323, 165..311, 178..324, 179..325, 179..328, 449..592, 452..592		

Seq. No.	21263	Seq. ID	OJ991107_31.0204.C18
Gene No.	44411	Strand	-
Start	1	End	725
Name	OJ991107_31.0204.C18.o1.ts	Method	TBLASTX:Soybean
Start	6	End	508
GI	none	Score	62
Exons	6..104, 16..96, 179..325, 180..323, 449..508		

Seq. No.	21263	Seq. ID	OJ991107_31.0204.C18
Gene No.	44411	Strand	-
Start	1	End	725
Name	OJ991107_31.0204.C18.o1.gs	Method	GENSCAN
Start	179	End	595
GI	none	Score	.93
Exons	179..328, 500..595		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44412	Strand	+
Start	4	End	23036
Name	OJ991107_30.0204.C1.o1.gs	Method	GENSCAN
Start	4	End	22816
GI	none	Score	.8
Exons	4..81, 2421..2538, 2619..2709, 2801..2855, 2964..3095, 3286..3365, 3536..3638, 4388..4478, 4561..4656, 4786..4864, 5979..6084, 7877..7954, 8836..8925, 9081..9146, 10705..10794, 10998..11119, 11258..11387, 11458..11537, 11963..12098, 14073..14097, 14271..14416, 14790..14890, 15566..15723, 15896..16005, 16314..16442, 16524..16598, 17251..17382, 18094..18266, 18566..18626, 18705..18801, 19810..19901, 20468..20581, 20683..20757, 21414..21506, 21678..21749, 22048..22133, 22229..22322, 22391..22438, 22464..22498, 22600..22816		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44412	Strand	+
Start	4	End	23036
Name	OJ991107_30.0204.C1.o2.np	Method	AAT/NAP

Start	1201	End	3115
GI	4415927	Score	234
Exons	1201..1217, 2600..2709, 2801..2855, 2964..3115		
GI Descrip.	(AC006282) unknown protein [Arabidopsis thaliana]		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44412	Strand	+
Start	4	End	23036
Name	OJ991107_30.0204.C1.o1.np	Method	AAT/NAP
Start	2304	End	2916
GI	5306245	Score	75
Exons	2304..2916		
GI Descrip.	(AC006438) unknown protein [Arabidopsis thaliana]		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44412	Strand	+
Start	4	End	23036
Name	OJ991107_30.0204.C1.o1.gp	Method	AAT/GAP
Start	11467	End	14672
GI	uC-osflcyp173b04b1	Score	944
Exons	11467..11537, 11963..12098, 12801..12882, 14271..14416, 14592..14672		
GI Descrip.	'4415926/gb AAD20157  7.0e-57 (AC006282) unknown protein [Arabidopsis thaliana]'		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44412	Strand	+
Start	4	End	23036
Name	OJ991107_30.0204.C1.o2.gp	Method	AAT/GAP
Start	22457	End	23036
GI	none	Score	951
Exons	22457..22498, 22577..23036		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44413	Strand	+
Start	26762	End	27017
Name	OJ991107_30.0204.C1.o3.gp	Method	AAT/GAP
Start	26762	End	27017
GI	none	Score	481
Exons	26762..27017		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44414	Strand	+
Start	35525	End	41491
Name	OJ991107_30.0204.C1.o6.np	Method	AAT/NAP
Start	35525	End	41486
GI	6466937	Score	2362
Exons	35525..35548, 37099..41486		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44414	Strand	+
Start	35525	End	41491
Name	OJ991107_30.0204.C1.o3.gs	Method	GENSCAN
Start	36528	End	41491
GI	none	Score	.7

Exons 36528..36638, 36815..41491

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44414	Strand	+
Start	35525	End	41491
Name	OJ991107_30.0204.C1.o5.ng	Method	AAT/NAP
Start	37099	End	41486
GI	6466937	Score	2360
Exons	37099..41486		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44415	Strand	+
Start	43559	End	44933
Name	OJ991107_30.0204.C1.o8.np	Method	AAT/NAP
Start	43559	End	44933
GI	6759430	Score	164
Exons	43559..43604, 44664..44933		
GI Descrip.	(AL137189) putative protein [Arabidopsis thaliana]		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44416	Strand	+
Start	47844	End	49060
Name	OJ991107_30.0204.C1.o10.np	Method	AAT/NAP
Start	47844	End	49060
GI	6721543	Score	106
Exons	47844..47972, 48626..48701, 49020..49060		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44416	Strand	+
Start	47844	End	49060
Name	OJ991107_30.0204.C1.o5.gp	Method	AAT/GAP
Start	47858	End	48264
GI	7406_1.R1084	Score	669
Exons	47858..48264		
GI Descrip.	'1122315/emb CAA63901  7.0e-10 (X94191) heat shock protein:17.0 [Pennisetum glaucum]'		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44417	Strand	-
Start	23515	End	36518
Name	OJ991107_30.0204.C1.o2.gs	Method	GENSCAN
Start	23515	End	36318
GI	none	Score	.52
Exons	23515..23670, 24867..24933, 27562..27926, 28317..29212, 29218..29428, 29937..30047, 30093..30127, 30363..30492, 31249..31431, 31781..31887, 31939..32051, 32176..32670, 33269..36318		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44417	Strand	-
Start	23515	End	36518
Name	OJ991107_30.0204.C1.o3.np	Method	AAT/NAP
Start	33469	End	36518
GI	6466937	Score	2176

Exons 33469..36518  
 GI Descrip. (AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44417	Strand	-
Start	23515	End	36518
Name	OJ991107_30.0204.C1.o4.gp	Method	AAT/GAP
Start	33875	End	34416
GI	uC-osflcyp175d04b1	Score	1080
Exons	33875..34416		
GI Descrip.	'5080762/gb AAD39272.1 AC007203_4 1.0e-36 (AC007203) Similar to retrotransposon polyprotein [Arabidopsis thaliana]'		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44418	Strand	-
Start	43740	End	47102
Name	OJ991107_30.0204.C1.o9.np	Method	AAT/NAP
Start	43740	End	47102
GI	6164591	Score	465
Exons	43740..43773, 45324..45841, 47071..47102		
GI Descrip.	(AF053973) UDP-glucose dehydrogenase [Populus tremula x Populus tremuloides]		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44419	Strand	-
Start	47774	End	55066
Name	OJ991107_30.0204.C1.o5.gs	Method	GENSCAN
Start	47774	End	54537
GI	none	Score	.49
Exons	47774..47936, 48519..48645, 48796..48998, 49003..49050, 49114..49245, 49336..49373, 49439..49621, 49714..49972, 50049..50347, 50441..50851, 50936..51272, 51378..51528, 51904..54537		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44419	Strand	-
Start	47774	End	55066
Name	OJ991107_30.0204.C1.o6.gp	Method	AAT/GAP
Start	48207	End	48660
GI	LIB3431-045-P1-N1-A10	Score	876
Exons	48207..48660		
GI Descrip.	'5441876/dbj AP000367.1 AP000367 0.0e+00 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig b)'		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44419	Strand	-
Start	47774	End	55066
Name	OJ991107_30.0204.C1.o11.np	Method	AAT/NAP
Start	48764	End	54079
GI	5441880	Score	4716
Exons	48764..48998, 49114..49245, 49336..49359, 49396..49469, 49714..49972, 50049..50347, 50936..51272, 51378..51528, 52024..52339, 52598..52629, 53074..54079		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44419	Strand	-
Start	47774	End	55066
Name	OJ991107_30.0204.C1.o7.gp	Method	AAT/GAP
Start	49722	End	50221
GI	LIB3475-007-P1-K1-G8	Score	793
Exons	49722..49972, 50049..50221		
GI Descrip.	'5441880/dbj BAA82378.1  5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]'		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44419	Strand	-
Start	47774	End	55066
Name	OJ991107_30.0204.C1.o8.gp	Method	AAT/GAP
Start	53044	End	53475
GI	5701669	Score	841
Exons	53044..53475		
GI Descrip.	5441880/dbj BAA82378.1  5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44419	Strand	-
Start	47774	End	55066
Name	OJ991107_30.0204.C1.o12.np	Method	AAT/NAP
Start	54092	End	55066
GI	6721543	Score	109
Exons	54092..54208, 55023..55066		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44420	Strand	-
Start	54973	End	55066
Name	OJ991107_30.0204.C1.o15.tm	Method	TBLASTX:Maize
Start	2	End	873
GI	none	Score	82
Exons	2..82, 3..83, 164..301, 173..250, 244..291, 747..869, 752..868, 763..873		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44420	Strand	-
Start	54973	End	55066
Name	OJ991107_30.0204.C1.o2.tc	Method	TBLASTX:Cress
Start	11248	End	12884
GI	none	Score	73
Exons	11248..11358, 11259..11387, 11265..11393, 11439..11537, 11458..11538, 11468..11551, 11943..12095, 11960..12097, 12026..12097, 12806..12883, 12807..12884		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44420	Strand	-
Start	54973	End	55066
Name	OJ991107_30.0204.C1.o9.tm	Method	TBLASTX:Maize
Start	15894	End	16775
GI	none	Score	69



Exons 15894..15953, 15897..15953, 15898..15951, 15954..16025,  
15958..16008, 16311..16439, 16312..16440, 16313..16480,  
16521..16610, 16523..16609, 16679..16774, 16680..16775

Seq. No. 21264 Seq. ID OJ991107\_30.0204.C1  
Gene No. 44420 Strand -  
Start 54973 End 55066  
Name OJ991107\_30.0204.C1.o11.tm Method TBLASTX:Maize  
Start 17244 End 18267  
GI none Score 203  
Exons 17244..17381, 17251..17382, 17252..17386, 17253..17384,  
18076..18264, 18077..18265, 18090..18266, 18094..18267

Seq. No. 21264 Seq. ID OJ991107\_30.0204.C1  
Gene No. 44420 Strand -  
Start 54973 End 55066  
Name OJ991107\_30.0204.C1.o1.tw Method TBLASTX:Wheat  
Start 18068 End 18753  
GI none Score 224  
Exons 18068..18256, 18073..18249, 18090..18266, 18097..18267,  
18359..18484, 18362..18481, 18363..18482, 18364..18486,  
18382..18483, 18558..18632, 18565..18624, 18566..18637,  
18701..18751, 18703..18753, 18705..18752

Seq. No. 21264 Seq. ID OJ991107\_30.0204.C1  
Gene No. 44420 Strand -  
Start 54973 End 55066  
Name OJ991107\_30.0204.C1.o3.tc Method TBLASTX:Cress  
Start 18172 End 18632  
GI none Score 58  
Exons 18172..18267, 18356..18484, 18564..18632

Seq. No. 21264 Seq. ID OJ991107\_30.0204.C1  
Gene No. 44420 Strand -  
Start 54973 End 55066  
Name OJ991107\_30.0204.C1.o14.tm Method TBLASTX:Maize  
Start 18729 End 22319  
GI none Score 78  
Exons 18729..18788, 19044..19133, 19048..19155, 19807..19914,  
19811..19915, 20450..20578, 20459..20608, 20470..20583,  
20680..20757, 20682..20759, 20694..20759, 21386..21493,  
21389..21439, 21420..21476, 21424..21501, 21673..21747,  
21675..21749, 21675..21749, 21676..21750, 21961..22044,  
22044..22133, 22045..22134, 22047..22139, 22227..22319,  
22230..22319

Seq. No. 21264 Seq. ID OJ991107\_30.0204.C1  
Gene No. 44420 Strand -  
Start 54973 End 55066  
Name OJ991107\_30.0204.C1.o4.ts Method TBLASTX:Soybean  
Start 21702 End 22720  
GI none Score 76  
Exons 21702..21749, 22224..22322, 22388..22489, 22390..22518,  
22565..22720, 22576..22665

Seq. No. 21264 Seq. ID OJ991107\_30.0204.C1  
Gene No. 44420 Strand -

Start	54973	End	55066
Name	OJ991107_30.0204.C1.o8.tm	Method	TBLASTX:Maize
Start	22440	End	22798
GI	none	Score	90
Exons	22440..22520, 22441..22521, 22442..22492, 22563..22661, 22565..22798, 22570..22797		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44420	Strand	-
Start	54973	End	55066
Name	OJ991107_30.0204.C1.o8.tw	Method	TBLASTX:Wheat
Start	27603	End	31341
GI	none	Score	63
Exons	27603..27740, 27606..27710, 27711..27815, 27757..27822, 27772..27819, 31123..31341, 31126..31341		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44420	Strand	-
Start	54973	End	55066
Name	OJ991107_30.0204.C1.o4.tm	Method	TBLASTX:Maize
Start	33256	End	41320
GI	none	Score	35
Exons	33256..33324, 33269..33322, 33419..33583, 33419..33517, 33421..33597, 33421..33990, 33650..33907, 33889..33990, 40805..41125, 41234..41320		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44420	Strand	-
Start	54973	End	55066
Name	OJ991107_30.0204.C1.o7.tw	Method	TBLASTX:Wheat
Start	33628	End	41125
GI	none	Score	141
Exons	33628..33963, 33665..33907, 40970..41125		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44420	Strand	-
Start	54973	End	55066
Name	OJ991107_30.0204.C1.o1.tm	Method	TBLASTX:Maize
Start	34033	End	40759
GI	none	Score	344
Exons	34033..34668, 34034..34582, 40127..40237, 40264..40710, 40301..40759		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44420	Strand	-
Start	54973	End	55066
Name	OJ991107_30.0204.C1.o4.tw	Method	TBLASTX:Wheat
Start	34033	End	40960
GI	none	Score	274
Exons	34033..34413, 40379..40762, 40459..40617, 40832..40960		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44420	Strand	-
Start	54973	End	55066
Name	OJ991107_30.0204.C1.o2.ts	Method	TBLASTX:Soybean
Start	34261	End	40531
GI	none	Score	158

Exons 34261..34644, 34346..34531, 34549..34638, 40148..40249,  
40186..40455, 40301..40531

Seq. No. 21264 Seq. ID OJ991107\_30.0204.C1  
Gene No. 44420 Strand -  
Start 54973 End 55066  
Name OJ991107\_30.0204.C1.o5.tw Method TBLASTX:Wheat  
Start 34504 End 40249  
GI none Score 159  
Exons 34504..34902, 34505..34768, 40130..40249

Seq. No. 21264 Seq. ID OJ991107\_30.0204.C1  
Gene No. 44420 Strand -  
Start 54973 End 55066  
Name OJ991107\_30.0204.C1.o6.tm Method TBLASTX:Maize  
Start 34669 End 39898  
GI none Score 136  
Exons 34669..34890, 34918..35094, 34949..35092, 34969..35094,  
39725..39898

Seq. No. 21264 Seq. ID OJ991107\_30.0204.C1  
Gene No. 44420 Strand -  
Start 54973 End 55066  
Name OJ991107\_30.0204.C1.o9.tw Method TBLASTX:Wheat  
Start 34918 End 39886  
GI none Score 198  
Exons 34918..34965, 35032..35235, 39560..39886

Seq. No. 21264 Seq. ID OJ991107\_30.0204.C1  
Gene No. 44420 Strand -  
Start 54973 End 55066  
Name OJ991107\_30.0204.C1.o5.ts Method TBLASTX:Soybean  
Start 35080 End 39715  
GI none Score 114  
Exons 35080..35337, 35177..35335, 39499..39618, 39503..39715

Seq. No. 21264 Seq. ID OJ991107\_30.0204.C1  
Gene No. 44420 Strand -  
Start 54973 End 55066  
Name OJ991107\_30.0204.C1.o2.tm Method TBLASTX:Maize  
Start 35095 End 39709  
GI none Score 342  
Exons 35095..35607, 35099..35608, 39185..39436, 39193..39435,  
39499..39618, 39500..39709

Seq. No. 21264 Seq. ID OJ991107\_30.0204.C1  
Gene No. 44420 Strand -  
Start 54973 End 55066  
Name OJ991107\_30.0204.C1.o6.tw Method TBLASTX:Wheat  
Start 35245 End 39559  
GI none Score 133  
Exons 35245..35598, 35279..35608, 39161..39439, 39193..39438,  
39500..39559

Seq. No. 21264 Seq. ID OJ991107\_30.0204.C1  
Gene No. 44420 Strand -  
Start 54973 End 55066

Name	OJ991107_30.0204.C1.o3.ts	Method	TBLASTX:Soybean
Start	35359	End	39439
GI	none	Score	107
Exons	35359..35598, 35372..35599, 35653..35718, 39122..39439, 39193..39438		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44420	Strand	-
Start	54973	End	55066
Name	OJ991107_30.0204.C1.o3.tm	Method	TBLASTX:Maize
Start	35650	End	39166
GI	none	Score	262
Exons	35650..36114, 35657..36073, 35734..36114, 36000..36116, 38681..39166, 38710..39147		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44420	Strand	-
Start	54973	End	55066
Name	OJ991107_30.0204.C1.o3.tw	Method	TBLASTX:Wheat
Start	35695	End	39085
GI	none	Score	151
Exons	35695..36177, 35729..36025, 38630..39070, 38734..39051, 38798..39085		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44420	Strand	-
Start	54973	End	55066
Name	OJ991107_30.0204.C1.o6.ts	Method	TBLASTX:Soybean
Start	35827	End	38980
GI	none	Score	222
Exons	35827..36141, 38666..38980		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44420	Strand	-
Start	54973	End	55066
Name	OJ991107_30.0204.C1.o13.tm	Method	TBLASTX:Maize
Start	37271	End	37537
GI	none	Score	183
Exons	37271..37477, 37300..37476, 37468..37509, 37469..37537		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44420	Strand	-
Start	54973	End	55066
Name	OJ991107_30.0204.C1.o12.tm	Method	TBLASTX:Maize
Start	37946	End	42521
GI	none	Score	65
Exons	37946..37999, 42105..42131, 42107..42130, 42114..42263, 42115..42300, 42364..42486, 42380..42460, 42381..42521		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44420	Strand	-
Start	54973	End	55066
Name	OJ991107_30.0204.C1.o10.tm	Method	TBLASTX:Maize
Start	44756	End	44972
GI	none	Score	247
Exons	44756..44932, 44757..44972		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44420	Strand	-
Start	54973	End	55066
Name	OJ991107_30.0204.C1.o1.tc	Method	TBLASTX:Cress
Start	45399	End	45804
GI	none	Score	102
Exons	45399..45581, 45399..45584, 45403..45585, 45583..45636, 45613..45804, 45617..45784		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44420	Strand	-
Start	54973	End	55066
Name	OJ991107_30.0204.C1.o5.tm	Method	TBLASTX:Maize
Start	45399	End	45831
GI	none	Score	192
Exons	45399..45584, 45400..45621, 45613..45804, 45615..45758, 45617..45784, 45781..45831, 45792..45824		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44420	Strand	-
Start	54973	End	55066
Name	OJ991107_30.0204.C1.o1.ts	Method	TBLASTX:Soybean
Start	45399	End	45804
GI	none	Score	171
Exons	45399..45584, 45412..45573, 45613..45804, 45617..45784		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44420	Strand	-
Start	54973	End	55066
Name	OJ991107_30.0204.C1.o2.tw	Method	TBLASTX:Wheat
Start	52844	End	53224
GI	none	Score	79
Exons	52844..53020, 52874..53020, 52905..53024, 53018..53215, 53030..53224		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44420	Strand	-
Start	54973	End	55066
Name	OJ991107_30.0204.C1.o7.tm	Method	TBLASTX:Maize
Start	52922	End	53518
GI	none	Score	151
Exons	52922..52993, 53057..53356, 53118..53339, 53390..53518, 53412..53510		

Seq. No.	21264	Seq. ID	OJ991107_30.0204.C1
Gene No.	44420	Strand	-
Start	54973	End	55066
Name	OJ991107_30.0204.C1.o9.gp	Method	AAT/GAP
Start	54973	End	55066
GI	7406_1.R1084	Score	139
Exons	54973..55066		
GI Descrip.	'1122315/emb CAA63901  7.0e-10 (X94191) heat shock protein 17.0 [Pennisetum glaucum]'		

Seq. No.	21265	Seq. ID	OJ991107_30.0204.C2
Gene No.	44421	Strand	+
Start	12481	End	12862

Name	OJ991107_30.0204.C2.o2.gp	Method	AAT/GAP
Start	12481	End	12862
GI	uC-osflcyp033a04b1	Score	671
Exons	12481..12862		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	21265	Seq. ID	OJ991107_30.0204.C2
Gene No.	44422	Strand	-
Start	6848	End	16687
Name	OJ991107_30.0204.C2.o2.np	Method	AAT/NAP
Start	6117	End	16317
GI	5852180	Score	470
Exons	6117..6168, 11157..11562, 11614..11732, 12711..12764, 13657..13792, 14646..14754, 16179..16317		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	21265	Seq. ID	OJ991107_30.0204.C2
Gene No.	44422	Strand	-
Start	6848	End	16687
Name	OJ991107_30.0204.C2.o2.gs	Method	GENSCAN
Start	6848	End	16422
GI	none	Score	.4
Exons	6848..6882, 8555..8635, 11125..11411, 12711..12764, 14504..14659, 14730..14811, 14922..15111, 15208..16422		

Seq. No.	21265	Seq. ID	OJ991107_30.0204.C2
Gene No.	44422	Strand	-
Start	6848	End	16687
Name	OJ991107_30.0204.C2.o4.gp	Method	AAT/GAP
Start	14207	End	16687
GI	617_2.R1084	Score	4164
Exons	14207..14811, 14922..15111, 15208..16687		
GI Descrip.	'3258575 1.0e-96 (U89959) Hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	21265	Seq. ID	OJ991107_30.0204.C2
Gene No.	44422	Strand	-
Start	6848	End	16687
Name	OJ991107_30.0204.C2.o3.np	Method	AAT/NAP
Start	14552	End	16422
GI	3258575	Score	1590
Exons	14552..14811, 14922..15111, 15208..15378, 15526..16422		
GI Descrip.	(U89959) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	21265	Seq. ID	OJ991107_30.0204.C2
Gene No.	44423	Strand	-
Start	16658	End	16940
Name	OJ991107_30.0204.C2.o5.gp	Method	AAT/GAP
Start	16658	End	16940
GI	none	Score	483
Exons	16658..16940		

Seq. No.	21265	Seq. ID	OJ991107_30.0204.C2
Gene No.	44424	Strand	-
Start	17302	End	17421
Name	OJ991107_30.0204.C2.o6.gp	Method	AAT/GAP

Start 17302  
GI none  
Exons 17302..17421

End 17421  
Score 203

Seq. No. 21265  
Gene No. 44425  
Start 18420  
Name OJ991107\_30.0204.C2.o4.tm  
Start 2018  
GI none  
Exons 2018..2074, 2059..2223, 2069..2209, 2075..2233, 4907..5095, 4927..5157, 4954..5154, 4970..5170, 4986..5174

Seq. ID OJ991107\_30.0204.C2  
Strand -  
End 18728  
Method TBLASTX:Maize  
End 5174  
Score 46

Seq. No. 21265  
Gene No. 44425  
Start 18420  
Name OJ991107\_30.0204.C2.o5.tm  
Start 5650  
GI none  
Exons 5650..5856, 5653..5775, 5703..5855

Seq. ID OJ991107\_30.0204.C2  
Strand -  
End 18728  
Method TBLASTX:Maize  
End 5856  
Score 234

Seq. No. 21265  
Gene No. 44425  
Start 18420  
Name OJ991107\_30.0204.C2.o3.ts  
Start 5656  
GI none  
Exons 5656..5814, 5803..5988

Seq. ID OJ991107\_30.0204.C2  
Strand -  
End 18728  
Method TBLASTX:Soybean  
End 5988  
Score 127

Seq. No. 21265  
Gene No. 44425  
Start 18420  
Name OJ991107\_30.0204.C2.o3.tw  
Start 5656  
GI none  
Exons 5656..5985, 6064..6162

Seq. ID OJ991107\_30.0204.C2  
Strand -  
End 18728  
Method TBLASTX:Wheat  
End 6162  
Score 262

Seq. No. 21265  
Gene No. 44425  
Start 18420  
Name OJ991107\_30.0204.C2.o2.tm  
Start 6060  
GI none  
Exons 6060..6248, 6061..6432, 6444..6527, 6445..6531

Seq. ID OJ991107\_30.0204.C2  
Strand -  
End 18728  
Method TBLASTX:Maize  
End 6531  
Score 337

Seq. No. 21265  
Gene No. 44425  
Start 18420  
Name OJ991107\_30.0204.C2.o2.tw  
Start 6256  
GI none  
Exons 6256..6624, 6393..6626

Seq. ID OJ991107\_30.0204.C2  
Strand -  
End 18728  
Method TBLASTX:Wheat  
End 6626  
Score 343

Seq. No. 21265  
Gene No. 44425  
Start 18420  
Name OJ991107\_30.0204.C2.o6.tm

Seq. ID OJ991107\_30.0204.C2  
Strand -  
End 18728  
Method TBLASTX:Maize

Start	6702	End	6996
GI	none	Score	157
Exons	6702..6815, 6703..6900, 6837..6899, 6913..6996		

Seq. No.	21265	Seq. ID	OJ991107_30.0204.C2
Gene No.	44425	Strand	-
Start	18420	End	18728
Name	OJ991107_30.0204.C2.o1.tm	Method	TBLASTX:Maize
Start	14179	End	16269
GI	none	Score	327
Exons	14179..14244, 14357..14377, 14400..14435, 14546..14836, 14553..14813, 14659..14814, 14701..14844, 14821..14886, 14909..14962, 14916..15062, 14923..15111, 14924..15115, 15000..15113, 15187..15630, 15188..15589, 15276..15590, 15427..15651, 15625..16269, 15640..15924, 15650..16264, 16006..16269		

Seq. No.	21265	Seq. ID	OJ991107_30.0204.C2
Gene No.	44425	Strand	-
Start	18420	End	18728
Name	OJ991107_30.0204.C2.o4.tw	Method	TBLASTX:Wheat
Start	14555	End	14749
GI	none	Score	148
Exons	14555..14749, 14568..14741		

Seq. No.	21265	Seq. ID	OJ991107_30.0204.C2
Gene No.	44425	Strand	-
Start	18420	End	18728
Name	OJ991107_30.0204.C2.o1.ts	Method	TBLASTX:Soybean
Start	14606	End	15366
GI	none	Score	158
Exons	14606..14836, 14610..14813, 14923..15111, 14924..15115, 15002..15133, 15187..15366, 15206..15352		

Seq. No.	21265	Seq. ID	OJ991107_30.0204.C2
Gene No.	44425	Strand	-
Start	18420	End	18728
Name	OJ991107_30.0204.C2.o2.ts	Method	TBLASTX:Soybean
Start	16114	End	16365
GI	none	Score	46
Exons	16114..16158, 16115..16168, 16150..16218, 16157..16219, 16219..16365, 16220..16363		

Seq. No.	21265	Seq. ID	OJ991107_30.0204.C2
Gene No.	44425	Strand	-
Start	18420	End	18728
Name	OJ991107_30.0204.C2.o1.tw	Method	TBLASTX:Wheat
Start	16135	End	16423
GI	none	Score	261
Exons	16135..16422, 16135..16422, 16136..16423, 16136..16423		

Seq. No.	21265	Seq. ID	OJ991107_30.0204.C2
Gene No.	44425	Strand	-
Start	18420	End	18728
Name	OJ991107_30.0204.C2.o1.tc	Method	TBLASTX:Cress
Start	16247	End	16465
GI	none	Score	150



Exons 16247..16465, 16249..16422

Seq. No.	21265	Seq. ID	OJ991107_30.0204.C2
Gene No.	44425	Strand	-
Start	18420	End	18728
Name	OJ991107_30.0204.C2.o3.tm	Method	TBLASTX:Maize
Start	16270	End	16946
GI	none	Score	234
Exons	16270..16437, 16271..16438, 16274..16444, 16356..16478, 16551..16589, 16552..16590, 16802..16849, 16895..16945, 16908..16946		

Seq. No.	21265	Seq. ID	OJ991107_30.0204.C2
Gene No.	44425	Strand	-
Start	18420	End	18728
Name	OJ991107_30.0204.C2.o3.gs	Method	GENSCAN
Start	18420	End	18728
GI	none	Score	.82
Exons	18420..18728		

Seq. No.	21266	Seq. ID	OJ991107_30.0204.C3
Gene No.	44426	Strand	+
Start	537	End	1171
Name	OJ991107_30.0204.C3.o1.gs	Method	GENSCAN
Start	537	End	1171
GI	none	Score	.87
Exons	537..591, 966..1171		

Seq. No.	21266	Seq. ID	OJ991107_30.0204.C3
Gene No.	44427	Strand	-
Start	2344	End	4057
Name	OJ991107_30.0204.C3.o2.gs	Method	GENSCAN
Start	2344	End	4057
GI	none	Score	.67
Exons	2344..2559, 3847..4057		

Seq. No.	21266	Seq. ID	OJ991107_30.0204.C3
Gene No.	44428	Strand	-
Start	3981	End	4109
Name	OJ991107_30.0204.C3.o1.gp	Method	AAT/GAP
Start	3981	End	4109
GI	none	Score	223
Exons	3981..4109		

Seq. No.	21267	Seq. ID	OJ991107_30.0204.C4
Gene No.	44429	Strand	-
Start	529	End	6713
Name	OJ991107_30.0204.C4.o1.gs	Method	GENSCAN
Start	529	End	6713
GI	none	Score	.55
Exons	529..656, 1488..1667, 2545..2611, 3410..4461, 5532..5615, 6113..6713		

Seq. No.	21267	Seq. ID	OJ991107_30.0204.C4
Gene No.	44429	Strand	-
Start	529	End	6713
Name	OJ991107_30.0204.C4.o5.tw	Method	TBLASTX:Wheat

Start	2405	End	2763
GI	none	Score	45
Exons	2405..2467, 2407..2466, 2473..2577, 2473..2634, 2635..2763		

Seq. No.	21267	Seq. ID	OJ991107_30.0204.C4
Gene No.	44429	Strand	-
Start	529	End	6713
Name	OJ991107_30.0204.C4.o2.tm	Method	TBLASTX:Maize
Start	2861	End	3190
GI	none	Score	187
Exons	2861..3016, 3002..3190		

Seq. No.	21267	Seq. ID	OJ991107_30.0204.C4
Gene No.	44429	Strand	-
Start	529	End	6713
Name	OJ991107_30.0204.C4.o2.np	Method	AAT/NAP
Start	2868	End	4402
GI	6967113	Score	697
Exons	2868..4402		
GI Descrip.	(AL138652) putative protein [Arabidopsis thaliana]		

Seq. No.	21267	Seq. ID	OJ991107_30.0204.C4
Gene No.	44429	Strand	-
Start	529	End	6713
Name	OJ991107_30.0204.C4.o1.tw	Method	TBLASTX:Wheat
Start	2873	End	3424
GI	none	Score	274
Exons	2873..2971, 3050..3424		

Seq. No.	21267	Seq. ID	OJ991107_30.0204.C4
Gene No.	44429	Strand	-
Start	529	End	6713
Name	OJ991107_30.0204.C4.o1.ts	Method	TBLASTX:Soybean
Start	3017	End	3574
GI	none	Score	86
Exons	3017..3061, 3062..3232, 3221..3445, 3225..3443, 3518..3574		

Seq. No.	21267	Seq. ID	OJ991107_30.0204.C4
Gene No.	44429	Strand	-
Start	529	End	6713
Name	OJ991107_30.0204.C4.o1.tm	Method	TBLASTX:Maize
Start	3192	End	4141
GI	none	Score	155
Exons	3192..3464, 3197..3475, 3203..4141, 3519..3893, 3915..4139		

Seq. No.	21267	Seq. ID	OJ991107_30.0204.C4
Gene No.	44429	Strand	-
Start	529	End	6713
Name	OJ991107_30.0204.C4.o2.tw	Method	TBLASTX:Wheat
Start	3503	End	3841
GI	none	Score	66
Exons	3503..3655, 3516..3656, 3677..3841		

Seq. No.	21267	Seq. ID	OJ991107_30.0204.C4
Gene No.	44429	Strand	-
Start	529	End	6713
Name	OJ991107_30.0204.C4.o4.tw	Method	TBLASTX:Wheat

Start 3872  
 GI none  
 Exons 3872..4087, 3915..4055

End 4087  
 Score 101

Seq. No. 21267  
 Gene No. 44429  
 Start 529  
 Name OJ991107\_30.0204.C4.o3.tm  
 Start 4289  
 GI none  
 Exons 4289..4378, 4442..4513, 4520..4681, 4732..4968, 5002..5034

Seq. ID OJ991107\_30.0204.C4  
 Strand -  
 End 6713  
 Method TBLASTX:Maize  
 End 5034  
 Score 34

Seq. No. 21267  
 Gene No. 44429  
 Start 529  
 Name OJ991107\_30.0204.C4.o3.tw  
 Start 4442  
 GI none  
 Exons 4442..4681

Seq. ID OJ991107\_30.0204.C4  
 Strand -  
 End 6713  
 Method TBLASTX:Wheat  
 End 4681  
 Score 213

Seq. No. 21267  
 Gene No. 44429  
 Start 529  
 Name OJ991107\_30.0204.C4.o6.tw  
 Start 5252  
 GI none  
 Exons 5252..5398, 5254..5385, 5440..5592, 5486..5587

Seq. ID OJ991107\_30.0204.C4  
 Strand -  
 End 6713  
 Method TBLASTX:Wheat  
 End 5592  
 Score 86

Seq. No. 21268  
 Gene No. 44430  
 Start 431  
 Name OJ991107\_30.0204.C5.o1.gs  
 Start 431  
 GI none  
 Exons 431..604

Seq. ID OJ991107\_30.0204.C5  
 Strand -  
 End 604  
 Method GENSCAN  
 End 604  
 Score .68

Seq. No. 21268  
 Gene No. 44431  
 Start 1949  
 Name OJ991107\_30.0204.C5.o2.gs  
 Start 1949  
 GI none  
 Exons 1949..2110, 2336..2450, 3099..3166

Seq. ID OJ991107\_30.0204.C5  
 Strand -  
 End 3166  
 Method GENSCAN  
 End 3166  
 Score .69

Seq. No. 21269  
 Gene No. 44432  
 Start 66  
 Name OJ991107\_30.0204.C6.o1.gs  
 Start 66  
 GI none  
 Exons 66..293

Seq. ID OJ991107\_30.0204.C6  
 Strand +  
 End 293  
 Method GENSCAN  
 End 293  
 Score .84

Seq. No. 21270  
 Gene No. 44433  
 Start 1  
 Name OJ991107\_30.0204.C8.o1.gp  
 Start 1

Seq. ID OJ991107\_30.0204.C8  
 Strand -  
 End 395  
 Method AAT/GAP  
 End 395

GI	none	Score	436
Exons	1..96, 191..395		
Seq. No.	21270	Seq. ID	OJ991107_30.0204.C8
Gene No.	44434	Strand	-
Start	296	End	750
Name	OJ991107_30.0204.C8.o1.gs	Method	GENSCAN
Start	296	End	705
GI	none	Score	.96
Exons	296..381, 522..705		
Seq. No.	21270	Seq. ID	OJ991107_30.0204.C8
Gene No.	44434	Strand	-
Start	296	End	750
Name	OJ991107_30.0204.C8.o2.gp	Method	AAT/GAP
Start	522	End	750
GI	LIB3432-052-P1-K1-B6	Score	361
Exons	522..750		
GI Descrip.	'1935909 3.0e-12 (U77345) lethal leaf-spot 1 [Zea mays]'		
Seq. No.	21270	Seq. ID	OJ991107_30.0204.C8
Gene No.	44435	Strand	-
Start	1626	End	2741
Name	OJ991107_30.0204.C8.o1.tc	Method	TBLASTX:Cress
Start	46	End	379
GI	none	Score	59
Exons	46..99, 56..97, 188..379, 191..379		
Seq. No.	21270	Seq. ID	OJ991107_30.0204.C8
Gene No.	44435	Strand	-
Start	1626	End	2741
Name	OJ991107_30.0204.C8.o3.gp	Method	AAT/GAP
Start	1626	End	1977
GI	2799260	Score	670
Exons	1626..1977		
GI Descrip.	1935909 3.0e-12 (U77345) lethal leaf-spot 1 [Zea mays]		
Seq. No.	21270	Seq. ID	OJ991107_30.0204.C8
Gene No.	44435	Strand	-
Start	1626	End	2741
Name	OJ991107_30.0204.C8.o1.tm	Method	TBLASTX:Maize
Start	1769	End	2740
GI	none	Score	245
Exons	1769..1837, 1772..2029, 1773..2030, 1776..2030, 2668..2739, 2672..2740		
Seq. No.	21270	Seq. ID	OJ991107_30.0204.C8
Gene No.	44435	Strand	-
Start	1626	End	2741
Name	OJ991107_30.0204.C8.o1.ts	Method	TBLASTX:Soybean
Start	1773	End	2737
GI	none	Score	154
Exons	1773..2030, 1885..2040, 1900..2028, 2668..2736, 2675..2737		
Seq. No.	21270	Seq. ID	OJ991107_30.0204.C8
Gene No.	44435	Strand	-
Start	1626	End	2741

Name	OJ991107_30.0204.C8.o2.tc	Method	TBLASTX:Cress
Start	1773	End	2739
GI	none	Score	127
Exons	1773..2030, 1900..2028, 2668..2718, 2716..2739		

Seq. No.	21270	Seq. ID	OJ991107_30.0204.C8
Gene No.	44435	Strand	-
Start	1626	End	2741
Name	OJ991107_30.0204.C8.o1.np	Method	AAT/NAP
Start	1776	End	2741
GI	1935909	Score	443
Exons	1776..2027, 2671..2741		
GI Descrip.	(U77345) lethal leaf-spot 1 [Zea mays]		

Seq. No.	21271	Seq. ID	OJ991107_30.0204.C9
Gene No.	44436	Strand	+
Start	2901	End	3104
Name	OJ991107_30.0204.C9.o2.np	Method	AAT/NAP
Start	2901	End	3104
GI	6016874	Score	226
Exons	2901..3104		
GI Descrip.	(AP000570) ESTs C19143(E10020),D25076(R3116) correspond to a region of the predicted gene.; Similar to putative AC9 transposase. (P03010) [Oryza sativa]		

Seq. No.	21271	Seq. ID	OJ991107_30.0204.C9
Gene No.	44437	Strand	-
Start	1	End	2037
Name	OJ991107_30.0204.C9.o1.np	Method	AAT/NAP
Start	1	End	2037
GI	1935912	Score	1410
Exons	1..287, 428..564, 1091..1217, 1305..1540, 1642..2037		
GI Descrip.	(U77346) LLS1 [Zea mays]		

Seq. No.	21271	Seq. ID	OJ991107_30.0204.C9
Gene No.	44437	Strand	-
Start	1	End	2037
Name	OJ991107_30.0204.C9.o1.gs	Method	GENSCAN
Start	428	End	2028
GI	none	Score	.74
Exons	428..564, 1091..1217, 1338..1540, 1642..2028		

Seq. No.	21271	Seq. ID	OJ991107_30.0204.C9
Gene No.	44438	Strand	-
Start	2683	End	3468
Name	OJ991107_30.0204.C9.o1.ts	Method	TBLASTX:Soybean
Start	117	End	1870
GI	none	Score	196
Exons	117..290, 125..301, 428..565, 430..567, 499..567, 501..602, 1086..1220, 1086..1190, 1088..1216, 1302..1541, 1304..1540, 1640..1870, 1642..1869		

Seq. No.	21271	Seq. ID	OJ991107_30.0204.C9
Gene No.	44438	Strand	-
Start	2683	End	3468
Name	OJ991107_30.0204.C9.o1.tm	Method	TBLASTX:Maize
Start	125	End	1195

GI	none	Score	277
Exons	125..289, 126..290, 130..303, 427..567, 428..565, 428..595, 429..566, 430..567, 1088..1195, 1090..1188		

Seq. No.	21271	Seq. ID	OJ991107_30.0204.C9
Gene No.	44438	Strand	-
Start	2683	End	3468
Name	OJ991107_30.0204.C9.o1.tc	Method	TBLASTX:Cress
Start	484	End	1771
GI	none	Score	72
Exons	484..561, 500..562, 500..595, 1091..1138, 1157..1204, 1161..1202, 1307..1540, 1308..1541, 1640..1771, 1642..1770		

Seq. No.	21271	Seq. ID	OJ991107_30.0204.C9
Gene No.	44438	Strand	-
Start	2683	End	3468
Name	OJ991107_30.0204.C9.o2.gs	Method	GENSCAN
Start	2683	End	3468
GI	none	Score	.43
Exons	2683..2967, 3100..3265, 3449..3468		

Seq. No.	21272	Seq. ID	OJ991107_30.0204.C10
Gene No.	44439	Strand	-
Start	2674	End	3304
Name	OJ991107_30.0204.C10.o1.gp	Method	AAT/GAP
Start	2501	End	3302
GI	30263_1.R1084	Score	1139
Exons	2501..2960, 3073..3133, 3221..3302		
GI Descrip.	'2274859/emb CAA03859  1.0e-37 (AJ000016) Cks1 protein [Arabidopsis thaliana] >gi_4510420_gb_AAD21506.1_(AC006929) putative cyclin-dependent kinase regulatory subunit [Arabidopsis thaliana]'		

Seq. No.	21272	Seq. ID	OJ991107_30.0204.C10
Gene No.	44439	Strand	-
Start	2674	End	3304
Name	OJ991107_30.0204.C10.o1.tm	Method	TBLASTX:Maize
Start	2607	End	3304
GI	none	Score	47
Exons	2607..2675, 2690..2746, 2802..2822, 2854..2961, 2856..2963, 2859..2963, 3073..3135, 3074..3136, 3074..3136, 3220..3303, 3221..3304		

Seq. No.	21272	Seq. ID	OJ991107_30.0204.C10
Gene No.	44439	Strand	-
Start	2674	End	3304
Name	OJ991107_30.0204.C10.o1.gs	Method	GENSCAN
Start	2674	End	3301
GI	none	Score	.49
Exons	2674..3133, 3221..3301		

Seq. No.	21272	Seq. ID	OJ991107_30.0204.C10
Gene No.	44439	Strand	-
Start	2674	End	3304
Name	OJ991107_30.0204.C10.o1.np	Method	AAT/NAP
Start	2814	End	3273
GI	2274859	Score	350

Exons 2814..2960, 3073..3133, 3221..3273  
 GI Descrip. (AJ000016) Cks1 protein [Arabidopsis thaliana]  
 gi|4510420|gb|AAD21506.1| (AC006929) putative cyclin-dependent  
 kinase regulatory subunit [Arabidopsis thaliana]

Seq. No. 21272 Seq. ID OJ991107\_30.0204.C10  
 Gene No. 44439 Strand -  
 Start 2674 End 3304  
 Name OJ991107\_30.0204.C10.o1.tc Method TBLASTX:Cress  
 Start 2856 End 3277  
 GI none Score 93  
 Exons 2856..2963, 2859..2960, 2860..2961, 3073..3135, 3074..3136,  
 3220..3276, 3221..3277

Seq. No. 21272 Seq. ID OJ991107\_30.0204.C10  
 Gene No. 44439 Strand -  
 Start 2674 End 3304  
 Name OJ991107\_30.0204.C10.o1.ts Method TBLASTX:Soybean  
 Start 2856 End 3274  
 GI none Score 62  
 Exons 2856..2963, 2859..2960, 2866..2961, 3073..3135, 3074..3136,  
 3220..3273, 3221..3274

Seq. No. 21273 Seq. ID OJ991107\_30.0204.C11  
 Gene No. 44440 Strand +  
 Start 213 End 6247  
 Name OJ991107\_30.0204.C11.o1.gs Method GENSCAN  
 Start 213 End 6247  
 GI none Score .58  
 Exons 213..269, 2189..2349, 3324..3458, 3574..3614, 4255..4421,  
 6185..6247

Seq. No. 21273 Seq. ID OJ991107\_30.0204.C11  
 Gene No. 44441 Strand +  
 Start 6735 End 8607  
 Name OJ991107\_30.0204.C11.o1.gp Method AAT/GAP  
 Start 6735 End 8607  
 GI 717 1.R1084 Score 2111  
 Exons 6735..6983, 7738..8607  
 GI Descrip. '1729971/sp|P50156|TIPG\_ORYSA 1.0e-116 TONOPLAST INTRINSIC  
 PROTEIN, GAMMA (GAMMA TIP) (AQUAPORIN-TIP)  
 >gi\_1076745\_pir\_S52004 gamma-Tip protein - rice  
 >gi\_473997\_dbj\_BAA05017\_ (D25534) gamma-Tip [Oryza sativa]'

Seq. No. 21273 Seq. ID OJ991107\_30.0204.C11  
 Gene No. 44441 Strand +  
 Start 6735 End 8607  
 Name OJ991107\_30.0204.C11.o2.np Method AAT/NAP  
 Start 6851 End 8354  
 GI 1729971 Score 1257  
 Exons 6851..6983, 7738..8354  
 GI Descrip. TONOPLAST INTRINSIC PROTEIN, GAMMA (GAMMA TIP) (AQUAPORIN-TIP)  
 gi|1076745|pir||S52004 gamma-Tip protein - rice  
 gi|473997|dbj|BAA05017| (D25534) gamma-Tip [Oryza sativa]

Seq. No. 21273 Seq. ID OJ991107\_30.0204.C11  
 Gene No. 44442 Strand +

Start	16113	End	17624
Name	OJ991107_30.0204.C11.o3.gs	Method	GENSCAN
Start	16113	End	17624
GI	none	Score	.7
Exons	16113..16129, 16893..17060, 17169..17381, 17441..17624		

  

Seq. No.	21273	Seq. ID	OJ991107_30.0204.C11
Gene No.	44443	Strand	+
Start	25053	End	27407
Name	OJ991107_30.0204.C11.o3.gp	Method	AAT/GAP
Start	25053	End	27332
GI	5758 1.R1084	Score	988
Exons	25053..25333, 26773..26864, 26935..27013, 27106..27203, 27297..27332		
GI Descrip.	'4972778/gb AAD34784.1  3.0e-10 (AF132196) unknown [Drosophila melanogaster]'		

  

Seq. No.	21273	Seq. ID	OJ991107_30.0204.C11
Gene No.	44443	Strand	+
Start	25053	End	27407
Name	OJ991107_30.0204.C11.o5.np	Method	AAT/NAP
Start	25156	End	27407
GI	6681330	Score	370
Exons	25156..25333, 26773..26864, 26935..27013, 27106..27203, 27297..27407		
GI Descrip.	(AC015985) hypothetical protein [Arabidopsis thaliana]		

  

Seq. No.	21273	Seq. ID	OJ991107_30.0204.C11
Gene No.	44444	Strand	+
Start	29983	End	30625
Name	OJ991107_30.0204.C11.o6.gs	Method	GENSCAN
Start	29983	End	30625
GI	none	Score	.97
Exons	29983..30356, 30553..30625		

  

Seq. No.	21273	Seq. ID	OJ991107_30.0204.C11
Gene No.	44445	Strand	-
Start	153	End	1554
Name	OJ991107_30.0204.C11.o1.np	Method	AAT/NAP
Start	153	End	1554
GI	862343	Score	107
Exons	153..193, 790..895, 1445..1554		
GI Descrip.	(L10908) Gcap1 gene product [Mus musculus] gi 1092097 prf  2022314A granule cell marker protein [Mus musculus] gi 1092098 prf  2022315A granule cell marker protein [Mus musculus]		

  

Seq. No.	21273	Seq. ID	OJ991107_30.0204.C11
Gene No.	44446	Strand	-
Start	6531	End	17397
Name	OJ991107_30.0204.C11.o2.gs	Method	GENSCAN
Start	6531	End	14683
GI	none	Score	.45
Exons	6531..6619, 6787..6996, 7345..7419, 7748..8448, 8615..8804, 9584..9694, 10322..10472, 10838..10907, 11093..11300, 12635..12734, 14567..14683		



Seq. No.	21273	Seq. ID	OJ991107_30.0204.C11
Gene No.	44446	Strand	-
Start	6531	End	17397
Name	OJ991107_30.0204.C11.o3.np	Method	AAT/NAP
Start	12630	End	17397
GI	2723477	Score	617
Exons	12630..12734, 14567..14695, 15094..15215, 15819..15884, 16235..16303, 17256..17397		
GI Descrip.	(D89824) GTP-binding protein [Arabidopsis thaliana]		

Seq. No.	21273	Seq. ID	OJ991107_30.0204.C11
Gene No.	44447	Strand	-
Start	18716	End	26146
Name	OJ991107_30.0204.C11.o4.gs	Method	GENSCAN
Start	18716	End	26146
GI	none	Score	.53
Exons	18716..18790, 18796..18950, 19154..19333, 19365..19406, 20011..20179, 20304..20381, 20510..20542, 21583..21840, 21935..22022, 22139..22236, 22317..22439, 22517..22660, 22915..23034, 23237..23420, 23760..23863, 25069..25560, 26141..26146		

Seq. No.	21273	Seq. ID	OJ991107_30.0204.C11
Gene No.	44447	Strand	-
Start	18716	End	26146
Name	OJ991107_30.0204.C11.o2.gp	Method	AAT/GAP
Start	19125	End	19763
GI	LIB3432-009-P1-K1-C1	Score	863
Exons	19125..19275, 19365..19583, 19667..19763		
GI Descrip.	'4105798 4.0e-39 (AF049930) PGP237-11 [Petunia x hybrida]'		

Seq. No.	21273	Seq. ID	OJ991107_30.0204.C11
Gene No.	44447	Strand	-
Start	18716	End	26146
Name	OJ991107_30.0204.C11.o4.np	Method	AAT/NAP
Start	19126	End	23019
GI	4105798	Score	790
Exons	19126..19275, 19365..19406, 19514..19583, 19667..19758, 19845..19927, 20011..20051, 20136..20179, 20304..20381, 20510..20542, 21781..21840, 21935..22022, 22946..23019		
GI Descrip.	(AF049930) PGP237-11 [Petunia x hybrida]		

Seq. No.	21273	Seq. ID	OJ991107_30.0204.C11
Gene No.	44448	Strand	-
Start	28224	End	29034
Name	OJ991107_30.0204.C11.o1.tm	Method	TBLASTX:Maize
Start	6848	End	8426
GI	none	Score	218
Exons	6848..6988, 6850..7035, 7737..7934, 7823..8320, 7830..8357, 8332..8376, 8373..8426		

Seq. No.	21273	Seq. ID	OJ991107_30.0204.C11
Gene No.	44448	Strand	-
Start	28224	End	29034
Name	OJ991107_30.0204.C11.o1.ts	Method	TBLASTX:Soybean
Start	6848	End	8351
GI	none	Score	156

Exons 6848..6988, 6850..6987, 7823..7993, 7830..7976, 8012..8317, 8016..8321, 8322..8351

Seq. No.	21273	Seq. ID	OJ991107_30.0204.C11
Gene No.	44448	Strand	-
Start	28224	End	29034
Name	OJ991107_30.0204.C11.o1.tc	Method	TBLASTX:Cress
Start	6850	End	8357
GI	none	Score	167
Exons	6850..6987, 6851..6988, 7791..7934, 7823..8008, 7830..7976, 8012..8317, 8016..8357		

Seq. No.	21273	Seq. ID	OJ991107_30.0204.C11
Gene No.	44448	Strand	-
Start	28224	End	29034
Name	OJ991107_30.0204.C11.o1.tw	Method	TBLASTX:Wheat
Start	6863	End	8393
GI	none	Score	105
Exons	6863..6988, 6865..6987, 7737..7934, 7829..7981, 7830..7973, 7982..8317, 8016..8393		

Seq. No.	21273	Seq. ID	OJ991107_30.0204.C11
Gene No.	44448	Strand	-
Start	28224	End	29034
Name	OJ991107_30.0204.C11.o4.tm	Method	TBLASTX:Maize
Start	12493	End	17497
GI	none	Score	58
Exons	12493..12579, 12495..12581, 12627..12680, 12628..12678, 12633..12737, 12645..12773, 12664..12774, 14560..14697, 14564..14734, 14568..14744, 15092..15217, 15093..15212, 15094..15225, 15097..15219, 15820..15885, 15821..15886, 16236..16304, 16236..16304, 16237..16305, 16237..16305, 17254..17370, 17255..17377, 17315..17395, 17438..17497		

Seq. No.	21273	Seq. ID	OJ991107_30.0204.C11
Gene No.	44448	Strand	-
Start	28224	End	29034
Name	OJ991107_30.0204.C11.o3.tc	Method	TBLASTX:Cress
Start	14561	End	17362
GI	none	Score	75
Exons	14561..14689, 14562..14690, 15086..15271, 15094..15225, 15820..15885, 15821..15886, 15823..15888, 16236..16304, 16237..16305, 17279..17362, 17287..17361		

Seq. No.	21273	Seq. ID	OJ991107_30.0204.C11
Gene No.	44448	Strand	-
Start	28224	End	29034
Name	OJ991107_30.0204.C11.o3.ts	Method	TBLASTX:Soybean
Start	15089	End	17370
GI	none	Score	142
Exons	15089..15217, 15094..15225, 15820..15885, 16236..16304, 16237..16305, 17278..17370		

Seq. No.	21273	Seq. ID	OJ991107_30.0204.C11
Gene No.	44448	Strand	-
Start	28224	End	29034
Name	OJ991107_30.0204.C11.o2.tm	Method	TBLASTX:Maize

Start	19164	End	20537
GI	none	Score	127
Exons	19164..19271, 19168..19275, 19169..19273, 19177..19275, 19335..19409, 19347..19421, 19357..19422, 19511..19582, 19512..19580, 19672..19758, 19679..19759, 19845..19922, 19845..19928, 19846..19929, 20009..20053, 20010..20054, 20135..20182, 20136..20225, 20139..20192, 20290..20376, 20294..20377, 20298..20381, 20299..20382, 20507..20536, 20508..20537		

Seq. No.	21273	Seq. ID	OJ991107_30.0204.C11
Gene No.	44448	Strand	-
Start	28224	End	29034
Name	OJ991107_30.0204.C11.o2.ts	Method	TBLASTX:Soybean
Start	19174	End	22022
GI	none	Score	95
Exons	19174..19275, 19175..19270, 19334..19420, 19511..19585, 19666..19758, 19679..19759, 19845..19928, 19845..19928, 20009..20053, 20010..20054, 20135..20179, 20298..20381, 20305..20382, 20507..20545, 21778..21843, 21935..22021, 21936..22022		

Seq. No.	21273	Seq. ID	OJ991107_30.0204.C11
Gene No.	44448	Strand	-
Start	28224	End	29034
Name	OJ991107_30.0204.C11.o3.tw	Method	TBLASTX:Wheat
Start	19511	End	20161
GI	none	Score	46
Exons	19511..19585, 19666..19758, 19845..19928, 20009..20053, 20135..20161		

Seq. No.	21273	Seq. ID	OJ991107_30.0204.C11
Gene No.	44448	Strand	-
Start	28224	End	29034
Name	OJ991107_30.0204.C11.o2.tc	Method	TBLASTX:Cress
Start	19717	End	22025
GI	none	Score	88
Exons	19717..19758, 19845..19925, 20012..20050, 20138..20179, 20298..20381, 20305..20382, 20507..20548, 21778..21843, 21929..22024, 21930..22025		

Seq. No.	21273	Seq. ID	OJ991107_30.0204.C11
Gene No.	44448	Strand	-
Start	28224	End	29034
Name	OJ991107_30.0204.C11.o3.tm	Method	TBLASTX:Maize
Start	25249	End	27488
GI	none	Score	67
Exons	25249..25332, 26772..26867, 26773..26859, 26784..26864, 26951..27013, 26952..27014, 26953..27015, 27090..27200, 27104..27202, 27105..27203, 27289..27468, 27290..27472, 27296..27475, 27297..27479, 27300..27488		

Seq. No.	21273	Seq. ID	OJ991107_30.0204.C11
Gene No.	44448	Strand	-
Start	28224	End	29034
Name	OJ991107_30.0204.C11.o2.tw	Method	TBLASTX:Wheat
Start	26796	End	27482

GI	none	Score	127
Exons	26796..26867, 26796..26864, 26932..27012, 26933..27013, 26934..27014, 26944..27015, 27104..27202, 27105..27203, 27124..27204, 27289..27471, 27296..27472, 27297..27482		
Seq. No.	21273	Seq. ID	OJ991107_30.0204.C11
Gene No.	44448	Strand	-
Start	28224	End	29034
Name	OJ991107_30.0204.C11.o5.gs	Method	GENSCAN
Start	28224	End	29034
GI	none	Score	.79
Exons	28224..28493, 28933..29034		
Seq. No.	21273	Seq. ID	OJ991107_30.0204.C11
Gene No.	44449	Strand	-
Start	32424	End	32688
Name	OJ991107_30.0204.C11.o5.tm	Method	TBLASTX:Maize
Start	32424	End	32688
GI	none	Score	115
Exons	32424..32675, 32437..32688		
Seq. No.	21273	Seq. ID	OJ991107_30.0204.C11
Gene No.	44450	Strand	-
Start	36597	End	37000
Name	OJ991107_30.0204.C11.o4.tw	Method	TBLASTX:Wheat
Start	36597	End	37000
GI	none	Score	76
Exons	36597..36788, 36620..36781, 36863..36910, 36890..36997, 36917..37000		
Seq. No.	21274	Seq. ID	OJ991107_30.0204.C12
Gene No.	44451	Strand	+
Start	355	End	1783
Name	OJ991107_30.0204.C12.o1.gs	Method	GENSCAN
Start	355	End	1783
GI	none	Score	.43
Exons	355..879, 1009..1575, 1715..1783		
Seq. No.	21274	Seq. ID	OJ991107_30.0204.C12
Gene No.	44451	Strand	+
Start	355	End	1783
Name	OJ991107_30.0204.C12.o1.np	Method	AAT/NAP
Start	364	End	1487
GI	2980806	Score	515
Exons	364..1487		
GI Descrip.	(AL022197) putative protein [Arabidopsis thaliana]		
Seq. No.	21274	Seq. ID	OJ991107_30.0204.C12
Gene No.	44451	Strand	+
Start	355	End	1783
Name	OJ991107_30.0204.C12.o2.ts	Method	TBLASTX:Soybean
Start	457	End	858
GI	none	Score	58
Exons	457..510, 694..858, 696..857		
Seq. No.	21274	Seq. ID	OJ991107_30.0204.C12
Gene No.	44451	Strand	+

Start	355	End	1783
Name	OJ991107_30.0204.C12.o2.tm	Method	TBLASTX:Maize
Start	694	End	1218
GI	none	Score	181
Exons	694..858, 723..857, 1132..1218		

Seq. No.	21274	Seq. ID	OJ991107_30.0204.C12
Gene No.	44451	Strand	+
Start	355	End	1783
Name	OJ991107_30.0204.C12.o1.tc	Method	TBLASTX:Cress
Start	778	End	1584
GI	none	Score	65
Exons	778..894, 1158..1307, 1159..1317, 1345..1584, 1368..1580		

Seq. No.	21274	Seq. ID	OJ991107_30.0204.C12
Gene No.	44451	Strand	+
Start	355	End	1783
Name	OJ991107_30.0204.C12.o1.ts	Method	TBLASTX:Soybean
Start	1176	End	1601
GI	none	Score	145
Exons	1176..1313, 1177..1317, 1345..1593, 1368..1601		

Seq. No.	21274	Seq. ID	OJ991107_30.0204.C12
Gene No.	44451	Strand	+
Start	355	End	1783
Name	OJ991107_30.0204.C12.o1.tm	Method	TBLASTX:Maize
Start	1237	End	1620
GI	none	Score	103
Exons	1237..1317, 1348..1620, 1362..1424, 1473..1592		

Seq. No.	21275	Seq. ID	OJ991107_30.0204.C15
Gene No.	44452	Strand	+
Start	393	End	679
Name	OJ991107_30.0204.C15.o1.gs	Method	GENSCAN
Start	393	End	679
GI	none	Score	.99
Exons	393..679		

Seq. No.	21275	Seq. ID	OJ991107_30.0204.C15
Gene No.	44453	Strand	-
Start	1	End	770
Name	OJ991107_30.0204.C15.o1.np	Method	AAT/NAP
Start	1	End	770
GI	6466937	Score	344
Exons	1..388, 615..770		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	21275	Seq. ID	OJ991107_30.0204.C15
Gene No.	44453	Strand	-
Start	1	End	770
Name	OJ991107_30.0204.C15.o1.tw	Method	TBLASTX:Wheat
Start	9	End	378
GI	none	Score	86
Exons	9..113, 67..378, 86..241		

Seq. No.	21275	Seq. ID	OJ991107_30.0204.C15
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Gene No.	44453	Strand	-
Start	1	End	770
Name	OJ991107_30.0204.C15.o1.tm	Method	TBLASTX:Maize
Start	15	End	387
GI	none	Score	119
Exons	15..110, 31..387, 89..382		
Seq. No.	21275	Seq. ID	OJ991107_30.0204.C15
Gene No.	44453	Strand	-
Start	1	End	770
Name	OJ991107_30.0204.C15.o1.ts	Method	TBLASTX:Soybean
Start	64	End	357
GI	none	Score	195
Exons	64..357		
Seq. No.	21276	Seq. ID	OJ991107_30.0204.C16
Gene No.	44454	Strand	-
Start	1	End	508
Name	OJ991107_30.0204.C16.o1.np	Method	AAT/NAP
Start	1	End	508
GI	2498930	Score	499
Exons	1..277, 445..508		
GI Descrip.	DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi 1203794 (U18774) Sog [Drosophila melanogaster]		
Seq. No.	21276	Seq. ID	OJ991107_30.0204.C16
Gene No.	44454	Strand	-
Start	1	End	508
Name	OJ991107_30.0204.C16.o1.gs	Method	GENSCAN
Start	80	End	504
GI	none	Score	.86
Exons	80..277, 445..504		
Seq. No.	21277	Seq. ID	OJ991217_20.0218.C1
Gene No.	44455	Strand	-
Start	1840	End	5834
Name	OJ991217_20.0218.C1.o1.gs	Method	GENSCAN
Start	1840	End	5834
GI	none	Score	.57
Exons	1840..1920, 2429..2490, 2651..2848, 3708..3783, 5025..5114, 5256..5303, 5401..5555, 5762..5834		
Seq. No.	21277	Seq. ID	OJ991217_20.0218.C1
Gene No.	44455	Strand	-
Start	1840	End	5834
Name	OJ991217_20.0218.C1.o1.np	Method	AAT/NAP
Start	2816	End	5290
GI	6715650	Score	70
Exons	2816..3031, 3670..3802, 4017..4296, 4622..4671, 5252..5290		
GI Descrip.	(AC007323) T25K16.2 [Arabidopsis thaliana]		
Seq. No.	21277	Seq. ID	OJ991217_20.0218.C1
Gene No.	44455	Strand	-
Start	1840	End	5834
Name	OJ991217_20.0218.C1.o1.tm	Method	TBLASTX:Maize
Start	2918	End	4544
GI	none	Score	88

Exons 2918..3001, 2919..3002, 3695..3778, 3708..3782, 3709..3777,  
3841..3954, 3854..3973, 3867..3935, 3868..3936, 3881..3967,  
4126..4239, 4128..4256, 4318..4404, 4322..4405, 4323..4409,  
4470..4544

Seq. No. 21277 Seq. ID OJ991217\_20.0218.C1  
Gene No. 44455 Strand -  
Start 1840 End 5834  
Name OJ991217\_20.0218.C1.o2.np Method AAT/NAP  
Start 3635 End 5496  
GI 6715650 Score 154  
Exons 3635..3802, 4017..4296, 4622..4671, 5252..5303, 5401..5496  
GI Descrip. (AC007323) T25K16.2 [Arabidopsis thaliana]

Seq. No. 21278 Seq. ID OJ991217\_20.0218.C2  
Gene No. 44456 Strand +  
Start 399 End 5258  
Name OJ991217\_20.0218.C2.o1.gp Method AAT/GAP  
Start 399 End 1566  
GI 43945 1.R1084 Score 499  
Exons 399..496, 596..677, 1342..1417, 1528..1566  
GI Descrip. '4689108/gb|AAD27763.1|AF077030\_1 1.0e-14 (AF077030)  
hypothetical 43.2 kDa protein [Homo sapiens]  
>gi\_4929577\_gb\_AAD34049.1\_AF151812\_1 (AF151812) CGI-54 protein  
[Homo sapiens]'

Seq. No. 21278 Seq. ID OJ991217\_20.0218.C2  
Gene No. 44456 Strand +  
Start 399 End 5258  
Name OJ991217\_20.0218.C2.o1.np Method AAT/NAP  
Start 406 End 4862  
GI 6970282 Score 236  
Exons 406..496, 596..677, 1342..1417, 1528..1616, 1960..2057,  
2867..3037, 3149..3199, 3610..3676, 4068..4192, 4497..4608,  
4679..4862  
GI Descrip. (AC021666) unknown protein [Arabidopsis thaliana]

Seq. No. 21278 Seq. ID OJ991217\_20.0218.C2  
Gene No. 44456 Strand +  
Start 399 End 5258  
Name OJ991217\_20.0218.C2.o1.gs Method GENSCAN  
Start 409 End 5063  
GI none Score .79  
Exons 409..496, 1528..1595, 1653..1748, 1960..2044, 2907..3037,  
3149..3232, 4046..4192, 4497..4608, 4679..4798, 4990..5063

Seq. No. 21278 Seq. ID OJ991217\_20.0218.C2  
Gene No. 44456 Strand +  
Start 399 End 5258  
Name OJ991217\_20.0218.C2.o2.gp Method AAT/GAP  
Start 3239 End 3694  
GI none Score 831  
Exons 3239..3694

Seq. No. 21278 Seq. ID OJ991217\_20.0218.C2  
Gene No. 44456 Strand +  
Start 399 End 5258

Name OJ991217\_20.0218.C2.o3.gp  
 Start 4733  
 GI none  
 Exons 4733..4798, 4990..5258

Method AAT/GAP  
 End 5258  
 Score 502

Seq. No. 21278  
 Gene No. 44457  
 Start 4986  
 Name OJ991217\_20.0218.C2.o4.gp  
 Start 4986  
 GI none  
 Exons 4986..5330

Seq. ID OJ991217\_20.0218.C2  
 Strand -  
 End 5330  
 Method AAT/GAP  
 End 5330  
 Score 667

Seq. No. 21278  
 Gene No. 44458  
 Start 6373  
 Name OJ991217\_20.0218.C2.o1.tw  
 Start 394  
 GI none  
 Exons 394..492, 405..494, 405..500, 406..495, 594..635, 595..657, 627..680, 638..667, 1335..1415, 1339..1416, 1339..1416, 1340..1417, 1340..1417, 1506..1607, 1522..1593, 1532..1612

Seq. ID OJ991217\_20.0218.C2  
 Strand -  
 End 8832  
 Method TBLASTX:Wheat  
 End 1612  
 Score 93

Seq. No. 21278  
 Gene No. 44458  
 Start 6373  
 Name OJ991217\_20.0218.C2.o3.tm  
 Start 394  
 GI none  
 Exons 394..495, 399..500, 594..632, 636..680, 1335..1415, 1339..1416, 1341..1415, 1486..1593, 1506..1607, 1530..1628, 1957..2040, 1959..2030, 2925..3038, 2925..3038, 2941..3039, 2966..3040, 3146..3289, 3148..3231, 3164..3235, 4013..4195, 4029..4193, 4044..4202, 4045..4194, 4052..4195, 4483..4575, 4490..4576, 4490..4594, 4491..4598, 4671..4802, 4678..4803, 4681..4806, 4975..5085, 4985..5095, 4986..5087, 4988..5095

Seq. ID OJ991217\_20.0218.C2  
 Strand -  
 End 8832  
 Method TBLASTX:Maize  
 End 5095  
 Score 143

Seq. No. 21278  
 Gene No. 44458  
 Start 6373  
 Name OJ991217\_20.0218.C2.o2.ts  
 Start 405  
 GI none  
 Exons 405..491, 406..495, 636..680, 1339..1416, 1341..1415, 1506..1598, 1532..1597, 1957..2043, 1959..2027, 2972..3040, 2983..3039, 3146..3235, 3147..3206, 3148..3225, 3149..3229, 4045..4098, 4052..4102

Seq. ID OJ991217\_20.0218.C2  
 Strand -  
 End 8832  
 Method TBLASTX:Soybean  
 End 4102  
 Score 97

Seq. No. 21278  
 Gene No. 44458  
 Start 6373  
 Name OJ991217\_20.0218.C2.o2.tc  
 Start 406  
 GI none  
 Exons 406..495, 609..632, 636..680, 1339..1416, 1339..1413, 1341..1415, 1506..1598, 1530..1595, 1532..1597, 1957..2028, 1959..2027

Seq. ID OJ991217\_20.0218.C2  
 Strand -  
 End 8832  
 Method TBLASTX:Cress  
 End 2028  
 Score 90



Seq. No.	21278	Seq. ID	OJ991217_20.0218.C2
Gene No.	44458	Strand	-
Start	6373	End	8832
Name	OJ991217_20.0218.C2.o1.tc	Method	TBLASTX:Cress
Start	4136	End	5036
GI	none	Score	96
Exons	4136..4195, 4490..4528, 4491..4529, 4517..4579, 4521..4598, 4677..4802, 4678..4803, 4986..5036		

Seq. No.	21278	Seq. ID	OJ991217_20.0218.C2
Gene No.	44458	Strand	-
Start	6373	End	8832
Name	OJ991217_20.0218.C2.o1.ts	Method	TBLASTX:Soybean
Start	4497	End	5048
GI	none	Score	128
Exons	4497..4598, 4499..4579, 4671..4802, 4678..4803, 4678..4806, 4986..5048, 4986..5045		

Seq. No.	21278	Seq. ID	OJ991217_20.0218.C2
Gene No.	44458	Strand	-
Start	6373	End	8832
Name	OJ991217_20.0218.C2.o5.gp	Method	AAT/GAP
Start	5953	End	7254
GI	LIB3434-065-P1-K1-F6	Score	876
Exons	5953..6116, 6360..6453, 6611..6712, 7125..7254		
GI Descrip.	'3132472 3.0e-10 (AC003096) unknown protein [Arabidopsis thaliana]'		

Seq. No.	21278	Seq. ID	OJ991217_20.0218.C2
Gene No.	44458	Strand	-
Start	6373	End	8832
Name	OJ991217_20.0218.C2.o2.gs	Method	GENSCAN
Start	6373	End	8832
GI	none	Score	.63
Exons	6373..6453, 6611..6664, 7125..7251, 7544..8832		

Seq. No.	21278	Seq. ID	OJ991217_20.0218.C2
Gene No.	44458	Strand	-
Start	6373	End	8832
Name	OJ991217_20.0218.C2.o2.tm	Method	TBLASTX:Maize
Start	7152	End	7962
GI	none	Score	97
Exons	7152..7193, 7180..7281, 7185..7253, 7538..7753, 7543..7755, 7676..7762, 7737..7889, 7777..7938, 7781..7885, 7888..7962, 7892..7960		

Seq. No.	21278	Seq. ID	OJ991217_20.0218.C2
Gene No.	44458	Strand	-
Start	6373	End	8832
Name	OJ991217_20.0218.C2.o1.tm	Method	TBLASTX:Maize
Start	8213	End	8730
GI	none	Score	336
Exons	8213..8596, 8215..8595, 8585..8686, 8599..8730, 8600..8671, 8610..8720		

Seq. No.	21279	Seq. ID	OJ991217_20.0218.C4
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Gene No.	44459	Strand	+
Start	118	End	482
Name	OJ991217_20.0218.C4.o1.np	Method	AAT/NAP
Start	118	End	479
GI	6523094	Score	332
Exons	118..479		
GI Descrip.	(AL133315) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	21279	Seq. ID	OJ991217_20.0218.C4
Gene No.	44459	Strand	+
Start	118	End	482
Name	OJ991217_20.0218.C4.o1.gs	Method	GENSCAN
Start	174	End	482
GI	none	Score	1
Exons	174..482		

Seq. No.	21279	Seq. ID	OJ991217_20.0218.C4
Gene No.	44460	Strand	+
Start	394	End	708
Name	OJ991217_20.0218.C4.o1.gp	Method	AAT/GAP
Start	394	End	708
GI	3768009	Score	589
Exons	394..708		

Seq. No.	21279	Seq. ID	OJ991217_20.0218.C4
Gene No.	44461	Strand	-
Start	1409	End	2217
Name	OJ991217_20.0218.C4.o2.ts	Method	TBLASTX:Soybean
Start	3	End	499
GI	none	Score	38
Exons	3..41, 20..85, 21..98, 156..269, 173..241, 267..482, 275..499, 311..496		

Seq. No.	21279	Seq. ID	OJ991217_20.0218.C4
Gene No.	44461	Strand	-
Start	1409	End	2217
Name	OJ991217_20.0218.C4.o2.tm	Method	TBLASTX:Maize
Start	201	End	460
GI	none	Score	385
Exons	201..458, 201..257, 203..460, 203..460		

Seq. No.	21279	Seq. ID	OJ991217_20.0218.C4
Gene No.	44461	Strand	-
Start	1409	End	2217
Name	OJ991217_20.0218.C4.o2.tc	Method	TBLASTX:Cress
Start	306	End	482
GI	none	Score	217
Exons	306..482, 308..478, 382..480		

Seq. No.	21279	Seq. ID	OJ991217_20.0218.C4
Gene No.	44461	Strand	-
Start	1409	End	2217
Name	OJ991217_20.0218.C4.o2.np	Method	AAT/NAP
Start	1372	End	2217
GI	4206789	Score	814
Exons	1372..2217		
GI Descrip.	(AF112864) syntaxin-related protein At-SYR1 [Arabidopsis		

thaliana] gi|6671938|gb|AAF23198.1|AC016795\_11 (AC016795)  
putative syntaxin [Arabidopsis thaliana]

Seq. No.	21279	Seq. ID	OJ991217_20.0218.C4
Gene No.	44461	Strand	-
Start	1409	End	2217
Name	OJ991217_20.0218.C4.o2.gs	Method	GENSCAN
Start	1409	End	2137
GI	none	Score	1
Exons	1409..2137		

Seq. No.	21279	Seq. ID	OJ991217_20.0218.C4
Gene No.	44461	Strand	-
Start	1409	End	2217
Name	OJ991217_20.0218.C4.o1.tc	Method	TBLASTX:Cress
Start	1538	End	2209
GI	none	Score	64
Exons	1538..2209, 1539..1634, 1592..1921, 1695..2042		

Seq. No.	21279	Seq. ID	OJ991217_20.0218.C4
Gene No.	44461	Strand	-
Start	1409	End	2217
Name	OJ991217_20.0218.C4.o1.tm	Method	TBLASTX:Maize
Start	1538	End	1984
GI	none	Score	121
Exons	1538..1984, 1632..1976		

Seq. No.	21279	Seq. ID	OJ991217_20.0218.C4
Gene No.	44461	Strand	-
Start	1409	End	2217
Name	OJ991217_20.0218.C4.o1.tw	Method	TBLASTX:Wheat
Start	1565	End	1946
GI	none	Score	164
Exons	1565..1945, 1640..1921, 1695..1946		

Seq. No.	21279	Seq. ID	OJ991217_20.0218.C4
Gene No.	44461	Strand	-
Start	1409	End	2217
Name	OJ991217_20.0218.C4.o1.ts	Method	TBLASTX:Soybean
Start	1643	End	2212
GI	none	Score	183
Exons	1643..1921, 1643..2212, 1695..2042, 2141..2194		

Seq. No.	21279	Seq. ID	OJ991217_20.0218.C4
Gene No.	44461	Strand	-
Start	1409	End	2217
Name	OJ991217_20.0218.C4.o3.tm	Method	TBLASTX:Maize
Start	2030	End	2215
GI	none	Score	93
Exons	2030..2215, 2141..2215		

Seq. No.	21280	Seq. ID	OJ991217_20.0218.C5
Gene No.	44462	Strand	+
Start	92	End	1783
Name	OJ991217_20.0218.C5.o1.gs	Method	GENSCAN
Start	92	End	1783
GI	none	Score	.64

Exons 92..159, 616..682, 1556..1783

Seq. No. 21280 Seq. ID OJ991217\_20.0218.C5  
Gene No. 44463 Strand -  
Start 4281 End 14943  
Name OJ991217\_20.0218.C5.o2.gs Method GENSCAN  
Start 4281 End 14943  
GI none Score .77  
Exons 4281..4809, 4897..5045, 5219..5386, 5499..5732, 6094..6249,  
6341..6511, 6873..7133, 7200..7310, 7384..7560, 8117..8189,  
8296..8422, 8461..8571, 9365..9500, 10089..10196, 10913..11032,  
11759..11845, 12185..12335, 12510..12571, 12617..12697,  
13207..13327, 13533..13695, 13775..13879, 14374..14473,  
14581..14943

Seq. No. 21280 Seq. ID OJ991217\_20.0218.C5  
Gene No. 44463 Strand -  
Start 4281 End 14943  
Name OJ991217\_20.0218.C5.o1.gp Method AAT/GAP  
Start 5981 End 6398  
GI none Score 634  
Exons 5981..6249, 6341..6398

Seq. No. 21280 Seq. ID OJ991217\_20.0218.C5  
Gene No. 44463 Strand -  
Start 4281 End 14943  
Name OJ991217\_20.0218.C5.o1.np Method AAT/NAP  
Start 7100 End 13082  
GI 4589674 Score 169  
Exons 7100..7118, 10477..10579, 10677..10808, 10913..11032,  
11762..11845, 12185..12436, 12608..12697, 13049..13082  
GI Descrip. (AB023229) KIAA1012 protein [Homo sapiens]

Seq. No. 21280 Seq. ID OJ991217\_20.0218.C5  
Gene No. 44464 Strand -  
Start 15908 End 20284  
Name OJ991217\_20.0218.C5.o3.tm Method TBLASTX:Maize  
Start 4365 End 4577  
GI none Score 92  
Exons 4365..4430, 4366..4458, 4420..4575, 4420..4542, 4425..4577

Seq. No. 21280 Seq. ID OJ991217\_20.0218.C5  
Gene No. 44464 Strand -  
Start 15908 End 20284  
Name OJ991217\_20.0218.C5.o2.tm Method TBLASTX:Maize  
Start 4578 End 5389  
GI none Score 66  
Exons 4578..4640, 4579..4623, 4641..4811, 4641..4829, 4681..4815,  
4898..4969, 4899..4955, 4962..5009, 4963..5037, 5219..5305,  
5330..5389

Seq. No. 21280 Seq. ID OJ991217\_20.0218.C5  
Gene No. 44464 Strand -  
Start 15908 End 20284  
Name OJ991217\_20.0218.C5.o4.tm Method TBLASTX:Maize  
Start 5622 End 6243  
GI none Score 100

Exons 5622..5738, 5622..5756, 5626..5739, 5627..5740, 6088..6243,  
6092..6241, 6093..6242, 6094..6243

Seq. No. 21280 Seq. ID OJ991217\_20.0218.C5  
Gene No. 44464 Strand -  
Start 15908 End 20284  
Name OJ991217\_20.0218.C5.o2.gp Method AAT/GAP  
Start 15718 End 17244  
GI 26540\_1.R1084 Score 1305  
Exons 15718..16021, 16108..16188, 16606..16686, 16782..16862,  
16939..17076, 17171..17244  
GI Descrip. '3327204/dbj|BAA31670| 4.0e-58 (AB014595) KIAA0695 protein [Homo  
sapiens]'

Seq. No. 21280 Seq. ID OJ991217\_20.0218.C5  
Gene No. 44464 Strand -  
Start 15908 End 20284  
Name OJ991217\_20.0218.C5.o1.tm Method TBLASTX:Maize  
Start 15742 End 20092  
GI none Score 55  
Exons 15742..15795, 15746..15856, 15746..15868, 15849..16016,  
15889..16032, 15899..16033, 15905..16033, 16102..16191,  
16103..16189, 16103..16192, 16108..16191, 16603..16689,  
16605..16688, 16778..16864, 16779..16865, 16782..16865,  
16936..17082, 16936..17106, 16940..17134, 17171..17284,  
17172..17303, 17173..17304, 17392..17457, 17394..17471,  
17394..17474, 17693..17731, 17694..17804, 17696..17806,  
17697..17804, 17777..17806, 18006..18059, 18007..18063,  
18008..18061, 18008..18064, 18144..18254, 18149..18283,  
18627..18761, 18631..18762, 18631..18762, 18632..18763,  
19205..19495, 19210..19455, 19212..19493, 19213..19503,  
19215..19520, 19690..19743, 19691..19753, 19692..19754,  
19747..19812, 19755..19811, 19757..19819, 19909..20091,  
19909..20091, 19913..20092

Seq. No. 21280 Seq. ID OJ991217\_20.0218.C5  
Gene No. 44464 Strand -  
Start 15908 End 20284  
Name OJ991217\_20.0218.C5.o1.tc Method TBLASTX:Cress  
Start 15908 End 17423  
GI none Score 99  
Exons 15908..16033, 16102..16191, 16103..16186, 16603..16689,  
16606..16689, 16770..16850, 16782..16859, 16939..17103,  
16940..17104, 17160..17303, 17170..17316, 17171..17284,  
17394..17423

Seq. No. 21280 Seq. ID OJ991217\_20.0218.C5  
Gene No. 44464 Strand -  
Start 15908 End 20284  
Name OJ991217\_20.0218.C5.o3.gs Method GENSCAN  
Start 15908 End 20089  
GI none Score .98  
Exons 15908..16021, 16108..16188, 16606..16686, 16782..16862,  
16939..17076, 17171..17302, 17394..17454, 17697..17803,  
18008..18061, 18152..18253, 18632..18757, 19205..19492,  
19909..20089

Seq. No.	21280	Seq. ID	OJ991217_20.0218.C5
Gene No.	44464	Strand	-
Start	15908	End	20284
Name	OJ991217_20.0218.C5.o2.np	Method	AAT/NAP
Start	15911	End	20284
GI	3687389	Score	1790
Exons	15911..16021, 16108..16188, 16606..16686, 16782..16862, 16939..17089, 17184..17302, 17394..17454, 17697..17803, 18008..18061, 18152..18253, 18632..18757, 19205..19492, 19691..19813, 19909..20284		
GI Descrip.	(Y16124) putative cullin protein [Lycopersicon esculentum]		

Seq. No.	21280	Seq. ID	OJ991217_20.0218.C5
Gene No.	44464	Strand	-
Start	15908	End	20284
Name	OJ991217_20.0218.C5.o1.tw	Method	TBLASTX:Wheat
Start	15948	End	17011
GI	none	Score	105
Exons	15948..16022, 15950..16033, 15950..16033, 16102..16191, 16103..16189, 16108..16191, 16109..16192, 16110..16202, 16596..16688, 16600..16689, 16603..16689, 16779..16865, 16780..16827, 16782..16859, 16939..17010, 16939..17010, 16940..17011, 16940..17011		

Seq. No.	21280	Seq. ID	OJ991217_20.0218.C5
Gene No.	44464	Strand	-
Start	15908	End	20284
Name	OJ991217_20.0218.C5.o1.ts	Method	TBLASTX:Soybean
Start	16600	End	17264
GI	none	Score	78
Exons	16600..16695, 16603..16689, 16604..16693, 16766..16861, 16779..16865, 16782..16865, 16935..17084, 16936..17106, 16940..17134, 17171..17263, 17172..17264		

Seq. No.	21280	Seq. ID	OJ991217_20.0218.C5
Gene No.	44464	Strand	-
Start	15908	End	20284
Name	OJ991217_20.0218.C5.o3.ts	Method	TBLASTX:Soybean
Start	17268	End	18760
GI	none	Score	46
Exons	17268..17306, 17394..17474, 17398..17451, 17694..17831, 17696..17806, 18006..18098, 18008..18064, 18144..18257, 18149..18283, 18631..18759, 18632..18760, 18636..18758, 18649..18759		

Seq. No.	21280	Seq. ID	OJ991217_20.0218.C5
Gene No.	44464	Strand	-
Start	15908	End	20284
Name	OJ991217_20.0218.C5.o2.ts	Method	TBLASTX:Soybean
Start	19287	End	20092
GI	none	Score	145
Exons	19287..19493, 19292..19513, 19292..19495, 19691..19819, 19695..19814, 19771..19815, 19905..20054, 19906..20085, 19906..20091, 19910..20092		

Seq. No.	21281	Seq. ID	OJ991217_20.0218.C6
Gene No.	44465	Strand	+

Start	7007	End	9301
Name	OJ991217_20.0218.C6.o2.np	Method	AAT/NAP
Start	7007	End	9301
GI	5042462	Score	88
Exons	7007..7057, 8937..8997, 9236..9301		
GI Descrip.	(AC007789) putative negatively light-regulated protein [Oryza sativa]		

Seq. No.	21281	Seq. ID	OJ991217_20.0218.C6
Gene No.	44465	Strand	+
Start	7007	End	9301
Name	OJ991217_20.0218.C6.o2.gs	Method	GENSCAN
Start	7730	End	9027
GI	none	Score	.71
Exons	7730..7812, 8099..8215, 8260..8437, 8604..8756, 8950..9027		

Seq. No.	21281	Seq. ID	OJ991217_20.0218.C6
Gene No.	44466	Strand	+
Start	10218	End	11435
Name	OJ991217_20.0218.C6.o3.gs	Method	GENSCAN
Start	10218	End	11435
GI	none	Score	.98
Exons	10218..11435		

Seq. No.	21281	Seq. ID	OJ991217_20.0218.C6
Gene No.	44466	Strand	+
Start	10218	End	11435
Name	OJ991217_20.0218.C6.o3.np	Method	AAT/NAP
Start	10224	End	11408
GI	3928096	Score	711
Exons	10224..10743, 10777..11408		
GI Descrip.	(AC005770) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	21281	Seq. ID	OJ991217_20.0218.C6
Gene No.	44467	Strand	-
Start	79	End	7634
Name	OJ991217_20.0218.C6.o1.gs	Method	GENSCAN
Start	79	End	7634
GI	none	Score	.65
Exons	79..194, 1316..1664, 2535..2588, 2966..3256, 3545..3710, 4825..4913, 5192..5264, 5341..5480, 5748..5869, 5962..6049, 6554..6847, 7521..7634		

Seq. No.	21281	Seq. ID	OJ991217_20.0218.C6
Gene No.	44467	Strand	-
Start	79	End	7634
Name	OJ991217_20.0218.C6.o5.tm	Method	TBLASTX:Maize
Start	79	End	1377
GI	none	Score	153
Exons	79..195, 83..196, 1312..1344, 1313..1348, 1335..1376, 1348..1377		

Seq. No.	21281	Seq. ID	OJ991217_20.0218.C6
Gene No.	44467	Strand	-
Start	79	End	7634
Name	OJ991217_20.0218.C6.o1.np	Method	AAT/NAP
Start	2948	End	6832
GI	6041789	Score	1510

Exons 2948..3256, 3337..3414, 3545..3739, 4286..4498, 4607..4712, 4825..4913, 5192..5264, 5341..5480, 5748..5869, 5962..6055, 6530..6832

GI Descrip. (AC009755) putative N2,N2-dimethylguanosine tRNA methyltransferase [Arabidopsis thaliana]

Seq. No.	21281	Seq. ID	OJ991217_20.0218.C6
Gene No.	44467	Strand	-
Start	79	End	7634
Name	OJ991217_20.0218.C6.o4.tm	Method	TBLASTX:Maize
Start	2975	End	3212
GI	none	Score	155
Exons	2975..3091, 3098..3211, 3099..3212		

Seq. No.	21281	Seq. ID	OJ991217_20.0218.C6
Gene No.	44467	Strand	-
Start	79	End	7634
Name	OJ991217_20.0218.C6.o1.ts	Method	TBLASTX:Soybean
Start	3170	End	4484
GI	none	Score	56
Exons	3170..3211, 3337..3426, 3347..3427, 3542..3748, 3543..3740, 4278..4469, 4280..4477, 4290..4484		

Seq. No.	21281	Seq. ID	OJ991217_20.0218.C6
Gene No.	44467	Strand	-
Start	79	End	7634
Name	OJ991217_20.0218.C6.o3.tm	Method	TBLASTX:Maize
Start	3542	End	3748
GI	none	Score	135
Exons	3542..3748, 3543..3740		

Seq. No.	21281	Seq. ID	OJ991217_20.0218.C6
Gene No.	44467	Strand	-
Start	79	End	7634
Name	OJ991217_20.0218.C6.o3.tc	Method	TBLASTX:Cress
Start	3626	End	4415
GI	none	Score	94
Exons	3626..3748, 3636..3740, 4278..4409, 4280..4411, 4280..4414, 4290..4415		

Seq. No.	21281	Seq. ID	OJ991217_20.0218.C6
Gene No.	44467	Strand	-
Start	79	End	7634
Name	OJ991217_20.0218.C6.o1.tm	Method	TBLASTX:Maize
Start	4295	End	6751
GI	none	Score	273
Exons	4295..4501, 4296..4502, 4384..4503, 4613..4714, 4617..4745, 4626..4718, 4825..4908, 4825..4914, 4827..4916, 4829..4915, 4848..4928, 5191..5262, 5192..5266, 5193..5264, 5194..5283, 5328..5480, 5334..5480, 5335..5481, 5739..5870, 5739..5870, 5740..5871, 5957..6055, 5962..6051, 6553..6618, 6554..6595, 6598..6750, 6605..6751, 6671..6751		

Seq. No.	21281	Seq. ID	OJ991217_20.0218.C6
Gene No.	44467	Strand	-
Start	79	End	7634
Name	OJ991217_20.0218.C6.o1.tc	Method	TBLASTX:Cress



Start	4607	End	5481
GI	none	Score	80
Exons	4607..4714, 4620..4715, 4828..4914, 4831..4908, 4833..4916, 4835..4918, 4848..4973, 5192..5266, 5193..5270, 5200..5274, 5328..5480, 5328..5480, 5335..5481		

Seq. No.	21281	Seq. ID	OJ991217_20.0218.C6
Gene No.	44467	Strand	-
Start	79	End	7634
Name	OJ991217_20.0218.C6.o2.ts	Method	TBLASTX:Soybean
Start	4825	End	5436
GI	none	Score	99
Exons	4825..4914, 4825..4914, 4848..4973, 5192..5266, 5193..5270, 5328..5435, 5335..5436		

Seq. No.	21281	Seq. ID	OJ991217_20.0218.C6
Gene No.	44467	Strand	-
Start	79	End	7634
Name	OJ991217_20.0218.C6.o2.tc	Method	TBLASTX:Cress
Start	5745	End	6055
GI	none	Score	109
Exons	5745..5870, 5748..5864, 5966..6055, 5967..6050		

Seq. No.	21281	Seq. ID	OJ991217_20.0218.C6
Gene No.	44467	Strand	-
Start	79	End	7634
Name	OJ991217_20.0218.C6.o1.gp	Method	AAT/GAP
Start	5751	End	6867
GI	uC-osflm202106g05b1	Score	936
Exons	5751..5869, 5962..6049, 6554..6867		
GI Descrip.	'5821066/dbj AB011967.1 AB011967 5.0e-15 Oryza sativa gene for WHO4, complete cds'		

Seq. No.	21281	Seq. ID	OJ991217_20.0218.C6
Gene No.	44468	Strand	-
Start	10803	End	11189
Name	OJ991217_20.0218.C6.o2.tm	Method	TBLASTX:Maize
Start	10803	End	11094
GI	none	Score	361
Exons	10803..11093, 10803..10916, 10846..11094		

Seq. No.	21281	Seq. ID	OJ991217_20.0218.C6
Gene No.	44468	Strand	-
Start	10803	End	11189
Name	OJ991217_20.0218.C6.o3.ts	Method	TBLASTX:Soybean
Start	10917	End	11189
GI	none	Score	217
Exons	10917..11189, 10952..11017, 10966..11118, 10989..11189		

Seq. No.	21282	Seq. ID	OJ991217_20.0218.C7
Gene No.	44469	Strand	+
Start	1	End	668
Name	OJ991217_20.0218.C7.o1.np	Method	AAT/NAP
Start	1	End	668
GI	121631	Score	128
Exons	1..24, 171..231, 398..668		
GI Descrip.	GLYCINE-RICH CELL WALL STRUCTURAL PROTEIN 2 PRECURSOR		

gi|72323|pir||KNNT2S glycine-rich protein 2 - wood tobacco  
gi|19743|emb|CAA42622| (X60007) nsGRP-2 [Nicotiana sylvestris]

Seq. No.	21283	Seq. ID	OJ991217_20.0218.C8
Gene No.	44470	Strand	+
Start	531	End	2897
Name	OJ991217_20.0218.C8.o1.gs	Method	GENSCAN
Start	531	End	2897
GI	none	Score	.71
Exons	531..842, 2472..2897		

Seq. No.	21283	Seq. ID	OJ991217_20.0218.C8
Gene No.	44470	Strand	+
Start	531	End	2897
Name	OJ991217_20.0218.C8.o1.np	Method	AAT/NAP
Start	697	End	2791
GI	161752	Score	100
Exons	697..771, 817..875, 2602..2791		
GI Descrip.	(L03710) cnjB [Tetrahymena thermophila] gi 737494 prf  1922371A cnjB gene [Tetrahymena thermophila]		

Seq. No.	21283	Seq. ID	OJ991217_20.0218.C8
Gene No.	44470	Strand	+
Start	531	End	2897
Name	OJ991217_20.0218.C8.o1.gp	Method	AAT/GAP
Start	732	End	1139
GI	2311551	Score	809
Exons	732..1139		

Seq. No.	21283	Seq. ID	OJ991217_20.0218.C8
Gene No.	44471	Strand	+
Start	2932	End	6158
Name	OJ991217_20.0218.C8.o2.np	Method	AAT/NAP
Start	2932	End	6158
GI	5852093	Score	80
Exons	2932..2967, 4306..4418, 5160..5228, 6088..6158		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	21283	Seq. ID	OJ991217_20.0218.C8
Gene No.	44472	Strand	+
Start	10383	End	10728
Name	OJ991217_20.0218.C8.o4.np	Method	AAT/NAP
Start	10272	End	10728
GI	6715717	Score	84
Exons	10272..10489, 10520..10728		
GI Descrip.	(AC016447) putative zinc finger protein [Arabidopsis thaliana]		

Seq. No.	21283	Seq. ID	OJ991217_20.0218.C8
Gene No.	44472	Strand	+
Start	10383	End	10728
Name	OJ991217_20.0218.C8.o2.gs	Method	GENSCAN
Start	10383	End	10695
GI	none	Score	.99
Exons	10383..10695		

Seq. No.	21283	Seq. ID	OJ991217_20.0218.C8
Gene No.	44473	Strand	-

Start	3507	End	5353
Name	OJ991217_20.0218.C8.o1.tm	Method	TBLASTX:Maize
Start	577	End	874
GI	none	Score	323
Exons	577..798, 578..814, 578..799, 582..803, 809..874		

Seq. No.	21283	Seq. ID	OJ991217_20.0218.C8
Gene No.	44473	Strand	-
Start	3507	End	5353
Name	OJ991217_20.0218.C8.o3.np	Method	AAT/NAP
Start	3507	End	5353
GI	5852093	Score	84
Exons	3507..3567, 5247..5353		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	21283	Seq. ID	OJ991217_20.0218.C8
Gene No.	44474	Strand	-
Start	10517	End	10637
Name	OJ991217_20.0218.C8.o2.tm	Method	TBLASTX:Maize
Start	10517	End	10637
GI	none	Score	205
Exons	10517..10621, 10518..10637		

Seq. No.	21284	Seq. ID	OJ991217_20.0218.C9
Gene No.	44475	Strand	+
Start	80	End	241
Name	OJ991217_20.0218.C9.o1.gs	Method	GENSCAN
Start	80	End	241
GI	none	Score	.65
Exons	80..241		

Seq. No.	21284	Seq. ID	OJ991217_20.0218.C9
Gene No.	44476	Strand	+
Start	6704	End	10278
Name	OJ991217_20.0218.C9.o3.gs	Method	GENSCAN
Start	6704	End	10278
GI	none	Score	.58
Exons	6704..6995, 8734..8799, 10145..10278		

Seq. No.	21284	Seq. ID	OJ991217_20.0218.C9
Gene No.	44476	Strand	+
Start	6704	End	10278
Name	OJ991217_20.0218.C9.o1.gp	Method	AAT/GAP
Start	9190	End	9426
GI	8022_1.R1084	Score	279
Exons	9190..9426		
GI Descrip.	'5091496/dbj AB023482.2 AB023482 3.0e-37 Oryza sativa genomic DNA, chromosome 6, clone P0680A03, complete sequence'		

Seq. No.	21284	Seq. ID	OJ991217_20.0218.C9
Gene No.	44477	Strand	+
Start	12496	End	13277
Name	OJ991217_20.0218.C9.o4.gs	Method	GENSCAN
Start	12496	End	13277
GI	none	Score	.9
Exons	12496..12566, 12845..12884, 13233..13277		

Seq. No.	21284	Seq. ID	OJ991217_20.0218.C9
Gene No.	44478	Strand	+
Start	26088	End	28908
Name	OJ991217_20.0218.C9.o3.np	Method	AAT/NAP
Start	26088	End	26780
GI	2944088	Score	1159
Exons	26088..26780		
GI Descrip.	(AF050102) glutathione s-transferase [Oryza sativa]		

Seq. No.	21284	Seq. ID	OJ991217_20.0218.C9
Gene No.	44478	Strand	+
Start	26088	End	28908
Name	OJ991217_20.0218.C9.o6.gs	Method	GENSCAN
Start	26088	End	28908
GI	none	Score	.61
Exons	26088..26629, 26733..26866, 27109..27260, 28831..28908		

Seq. No.	21284	Seq. ID	OJ991217_20.0218.C9
Gene No.	44479	Strand	-
Start	607	End	5944
Name	OJ991217_20.0218.C9.o2.gs	Method	GENSCAN
Start	607	End	5944
GI	none	Score	.55
Exons	607..833, 926..1079, 1662..1937, 1942..2304, 3935..4132, 5571..5606, 5882..5944		

Seq. No.	21284	Seq. ID	OJ991217_20.0218.C9
Gene No.	44480	Strand	-
Start	9781	End	9863
Name	OJ991217_20.0218.C9.o2.gp	Method	AAT/GAP
Start	9781	End	9863
GI	38012_1.R1084	Score	88
Exons	9781..9863		
GI Descrip.	'4097947/gb U72255 OSU72255 2.0e-23 Oryza sativa beta-1,3-glucanase precursor (Gns9) gene, complete cds'		

Seq. No.	21284	Seq. ID	OJ991217_20.0218.C9
Gene No.	44481	Strand	-
Start	13808	End	23467
Name	OJ991217_20.0218.C9.o3.gp	Method	AAT/GAP
Start	13808	End	17481
GI	803_1.R1084	Score	2936
Exons	13808..14340, 14431..14636, 14736..14805, 14929..14991, 15090..15156, 15260..15384, 15481..15558, 15691..15737, 15978..16102, 16593..16762, 17348..17481		
GI Descrip.	'3075399 3.0e-16 (AC004484) SF16-like protein [Arabidopsis thaliana]'		

Seq. No.	21284	Seq. ID	OJ991217_20.0218.C9
Gene No.	44481	Strand	-
Start	13808	End	23467
Name	OJ991217_20.0218.C9.o5.gs	Method	GENSCAN
Start	14072	End	23467
GI	none	Score	.71
Exons	14072..14158, 14431..14636, 14736..14805, 14929..14991, 15090..15156, 15260..15384, 15481..15558, 15691..15737, 15978..16102, 16593..16762, 17348..17358, 18681..18901,		

19173..19296, 19740..19874, 19951..20187, 21425..21626,  
23045..23075, 23427..23467

Seq. No.	21284	Seq. ID	OJ991217_20.0218.C9
Gene No.	44481	Strand	-
Start	13808	End	23467
Name	OJ991217_20.0218.C9.o1.np	Method	AAT/NAP
Start	14155	End	16732
GI	2570515	Score	1451
Exons	14155..14340, 14431..14636, 14736..14805, 14929..14991, 15090..15156, 15260..15384, 15481..15558, 15691..15737, 15978..16102, 16593..16732		
GI Descrip.	(AF022740) glycolate oxidase [Oryza sativa]		

Seq. No.	21284	Seq. ID	OJ991217_20.0218.C9
Gene No.	44481	Strand	-
Start	13808	End	23467
Name	OJ991217_20.0218.C9.o4.gp	Method	AAT/GAP
Start	18400	End	18818
GI	none	Score	723
Exons	18400..18818		

Seq. No.	21284	Seq. ID	OJ991217_20.0218.C9
Gene No.	44481	Strand	-
Start	13808	End	23467
Name	OJ991217_20.0218.C9.o2.np	Method	AAT/NAP
Start	18716	End	20206
GI	6041851	Score	518
Exons	18716..18901, 18980..19072, 19603..19892, 19936..20206		
GI Descrip.	(AC009853) unknown protein [Arabidopsis thaliana]		

Seq. No.	21284	Seq. ID	OJ991217_20.0218.C9
Gene No.	44481	Strand	-
Start	13808	End	23467
Name	OJ991217_20.0218.C9.o5.gp	Method	AAT/GAP
Start	19662	End	21625
GI	51025_1.R1084	Score	1101
Exons	19662..19874, 19951..20187, 21482..21625		
GI Descrip.	'6041851/gb AAF02160.1 AC009853_20.3.0e-18 (AC009853) unknown protein [Arabidopsis thaliana]'		

Seq. No.	21284	Seq. ID	OJ991217_20.0218.C9
Gene No.	44482	Strand	-
Start	25954	End	26999
Name	OJ991217_20.0218.C9.o6.gp	Method	AAT/GAP
Start	25954	End	26999
GI	845_1.R1084	Score	2037
Exons	25954..26999		
GI Descrip.	'2944088 1.0e-104 (AF050102) glutathione s-transferase [Oryza sativa]'		

Seq. No.	21284	Seq. ID	OJ991217_20.0218.C9
Gene No.	44483	Strand	-
Start	30775	End	31697
Name	OJ991217_20.0218.C9.o1.tw	Method	TBLASTX:Wheat
Start	1678	End	26354
GI	none	Score	59

Exons 1678..1755, 1758..1844, 26100..26177, 26103..26177,  
26181..26354, 26237..26353

Seq. No.	21284	Seq. ID	OJ991217_20.0218.C9
Gene No.	44483	Strand	-
Start	30775	End	31697
Name	OJ991217_20.0218.C9.o1.tm	Method	TBLASTX:Maize
Start	14171	End	16727
GI	none	Score	83
Exons	14171..14341, 14182..14340, 14428..14634, 14435..14647, 14438..14506, 14530..14652, 14725..14808, 14726..14806, 14921..14992, 14929..14994, 15090..15158, 15090..15158, 15091..15159, 15251..15334, 15257..15382, 15258..15380, 15259..15387, 15259..15390, 15478..15558, 15479..15559, 15482..15577, 15922..16101, 15959..16102, 16593..16727, 16598..16723		

Seq. No.	21284	Seq. ID	OJ991217_20.0218.C9
Gene No.	44483	Strand	-
Start	30775	End	31697
Name	OJ991217_20.0218.C9.o1.ts	Method	TBLASTX:Soybean
Start	14182	End	16727
GI	none	Score	99
Exons	14182..14340, 14183..14341, 14428..14634, 14438..14647, 14725..14808, 14726..14806, 14927..14986, 14929..14994, 15075..15155, 15089..15154, 15090..15158, 15091..15159, 15257..15334, 15259..15390, 15262..15393, 15476..15559, 15478..15558, 15959..16102, 15967..16101, 16593..16727, 16598..16726		

Seq. No.	21284	Seq. ID	OJ991217_20.0218.C9
Gene No.	44483	Strand	-
Start	30775	End	31697
Name	OJ991217_20.0218.C9.o4.tc	Method	TBLASTX:Cress
Start	14182	End	14341
GI	none	Score	98
Exons	14182..14340, 14183..14341		

Seq. No.	21284	Seq. ID	OJ991217_20.0218.C9
Gene No.	44483	Strand	-
Start	30775	End	31697
Name	OJ991217_20.0218.C9.o1.tc	Method	TBLASTX:Cress
Start	14455	End	16727
GI	none	Score	234
Exons	14455..14637, 14456..14641, 14725..14808, 14726..14806, 14927..14989, 14929..14994, 15074..15154, 15075..15155, 15090..15158, 15094..15159, 15251..15334, 15257..15382, 15259..15390, 15472..15546, 15476..15559, 15478..15558, 15959..16099, 15964..16101, 15967..16101, 16593..16727, 16598..16726		

Seq. No.	21284	Seq. ID	OJ991217_20.0218.C9
Gene No.	44483	Strand	-
Start	30775	End	31697
Name	OJ991217_20.0218.C9.o2.tw	Method	TBLASTX:Wheat
Start	14737	End	15010
GI	none	Score	94

Exons 14737..14817, 14738..14809, 14905..14994, 14906..15010,  
14927..15010

Seq. No.	21284	Seq. ID	OJ991217_20.0218.C9
Gene No.	44483	Strand	-
Start	30775	End	31697
Name	OJ991217_20.0218.C9.o4.tm	Method	TBLASTX:Maize
Start	18531	End	19042
GI	none	Score	59
Exons	18531..18677, 18698..18742, 18699..18743, 18740..18898, 18742..18903, 18744..18902, 18977..19042, 18980..19042		

Seq. No.	21284	Seq. ID	OJ991217_20.0218.C9
Gene No.	44483	Strand	-
Start	30775	End	31697
Name	OJ991217_20.0218.C9.o3.ts	Method	TBLASTX:Soybean
Start	18693	End	20190
GI	none	Score	39
Exons	18693..18746, 18707..18745, 18767..18895, 18774..18905, 18816..18902, 18977..19072, 18984..19088, 18996..19088, 19946..20005, 19982..20017, 20015..20185, 20016..20183, 20050..20190, 20053..20190		

Seq. No.	21284	Seq. ID	OJ991217_20.0218.C9
Gene No.	44483	Strand	-
Start	30775	End	31697
Name	OJ991217_20.0218.C9.o5.tc	Method	TBLASTX:Cress
Start	18722	End	19073
GI	none	Score	89
Exons	18722..18757, 18818..18895, 18977..19072, 18984..19073		

Seq. No.	21284	Seq. ID	OJ991217_20.0218.C9
Gene No.	44483	Strand	-
Start	30775	End	31697
Name	OJ991217_20.0218.C9.o2.tm	Method	TBLASTX:Maize
Start	19600	End	20197
GI	none	Score	166
Exons	19600..19743, 19604..19804, 19605..19814, 19605..19814, 19737..19880, 19822..19887, 19830..19880, 19927..20163, 19946..20164, 19950..20168, 19982..20167, 20058..20171, 20168..20197		

Seq. No.	21284	Seq. ID	OJ991217_20.0218.C9
Gene No.	44483	Strand	-
Start	30775	End	31697
Name	OJ991217_20.0218.C9.o3.tm	Method	TBLASTX:Maize
Start	26082	End	26522
GI	none	Score	328
Exons	26082..26354, 26120..26173, 26237..26353, 26405..26470, 26408..26464, 26415..26522		

Seq. No.	21284	Seq. ID	OJ991217_20.0218.C9
Gene No.	44483	Strand	-
Start	30775	End	31697
Name	OJ991217_20.0218.C9.o2.tc	Method	TBLASTX:Cress
Start	26103	End	26786
GI	none	Score	277

Exons 26103..26351, 26120..26320, 26399..26476, 26415..26525,  
26589..26786, 26600..26785

Seq. No.	21284	Seq. ID	OJ991217_20.0218.C9
Gene No.	44483	Strand	-
Start	30775	End	31697
Name	OJ991217_20.0218.C9.o2.ts	Method	TBLASTX:Soybean
Start	26103	End	26789
GI	none	Score	292
Exons	26103..26351, 26120..26173, 26237..26320, 26399..26470, 26415..26522, 26589..26789, 26594..26788		

Seq. No.	21284	Seq. ID	OJ991217_20.0218.C9
Gene No.	44483	Strand	-
Start	30775	End	31697
Name	OJ991217_20.0218.C9.o5.tm	Method	TBLASTX:Maize
Start	26589	End	26852
GI	none	Score	212
Exons	26589..26852, 26597..26785		

Seq. No.	21284	Seq. ID	OJ991217_20.0218.C9
Gene No.	44483	Strand	-
Start	30775	End	31697
Name	OJ991217_20.0218.C9.o4.np	Method	AAT/NAP
Start	30469	End	31697
GI	2832644	Score	236
Exons	30469..30784, 30910..31241, 31366..31697		
GI Descrip.	(AL021710) teosinte branched1 - like protein [Arabidopsis thaliana]		

Seq. No.	21284	Seq. ID	OJ991217_20.0218.C9
Gene No.	44483	Strand	-
Start	30775	End	31697
Name	OJ991217_20.0218.C9.o6.tm	Method	TBLASTX:Maize
Start	30740	End	31061
GI	none	Score	92
Exons	30740..30832, 30773..30862, 30775..30861, 30916..31038, 30962..31045, 30962..31048, 30972..31061		

Seq. No.	21284	Seq. ID	OJ991217_20.0218.C9
Gene No.	44483	Strand	-
Start	30775	End	31697
Name	OJ991217_20.0218.C9.o7.gs	Method	GENSCAN
Start	30775	End	31611
GI	none	Score	.41
Exons	30775..31611		

Seq. No.	21284	Seq. ID	OJ991217_20.0218.C9
Gene No.	44483	Strand	-
Start	30775	End	31697
Name	OJ991217_20.0218.C9.o3.tc	Method	TBLASTX:Cress
Start	31375	End	31696
GI	none	Score	145
Exons	31375..31419, 31507..31695, 31514..31696		

Seq. No.	21284	Seq. ID	OJ991217_20.0218.C9
Gene No.	44483	Strand	-



Start	30775	End	31697
Name	OJ991217_20.0218.C9.o4.ts	Method	TBLASTX:Soybean
Start	31510	End	31696
GI	5606956	Score	139
Exons	31510..31695, 31517..31696		
GI Descrip.	-		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44484	Strand	+
Start	9338	End	10320
Name	OJ991217_20.0218.C10.o2.gs	Method	GENSCAN
Start	9338	End	10320
GI	none	Score	.67
Exons	9338..9451, 9616..9717, 10098..10246, 10254..10320		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44485	Strand	+
Start	11857	End	12259
Name	OJ991217_20.0218.C10.o2.gp	Method	AAT/GAP
Start	11857	End	12259
GI	none	Score	784
Exons	11857..12259		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44486	Strand	+
Start	14876	End	22257
Name	OJ991217_20.0218.C10.o4.gs	Method	GENSCAN
Start	14876	End	15188
GI	none	Score	.44
Exons	14876..14905, 15021..15188		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44486	Strand	+
Start	14876	End	22257
Name	OJ991217_20.0218.C10.o2.np	Method	AAT/NAP
Start	14937	End	22257
GI	5734747	Score	1774
Exons	14937..15019, 16275..16358, 16440..16521, 17129..17252, 19034..19374, 19496..21236, 21761..21996, 22189..22257		
GI Descrip.	(AC007651) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44486	Strand	+
Start	14876	End	22257
Name	OJ991217_20.0218.C10.o5.gs	Method	GENSCAN
Start	15471	End	22083
GI	none	Score	.89
Exons	15471..15723, 15996..16074, 16275..16521, 17129..17252, 19034..19374, 19496..21227, 21746..22083		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44486	Strand	+
Start	14876	End	22257
Name	OJ991217_20.0218.C10.o5.gp	Method	AAT/GAP
Start	15483	End	19150
GI	uC-osflm202106e04b1	Score	1022
Exons	15483..15535, 16275..16521, 17129..17252, 19034..19150		

GI Descrip. '5734747/gb|AAD50012.1|AC007651\_7 3.0e-33 (AC007651)  
Hypothetical protein [Arabidopsis thaliana]'

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44486	Strand	+
Start	14876	End	22257
Name	OJ991217_20.0218.C10.o6.gp	Method	AAT/GAP
Start	20025	End	20310
GI	LIB3474-002-P1-K1-F7	Score	507
Exons	20025..20310		

GI Descrip. '5734747/gb|AAD50012.1|AC007651\_7 1.0e-18 (AC007651)  
Hypothetical protein [Arabidopsis thaliana]'

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44487	Strand	+
Start	23028	End	23960
Name	OJ991217_20.0218.C10.o7.gp	Method	AAT/GAP
Start	22983	End	23457
GI	27875_1.R1084	Score	909
Exons	22983..23457		

GI Descrip. '3128213 2.0e-20 (AC004077) hypothetical protein [Arabidopsis thaliana]'

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44487	Strand	+
Start	23028	End	23960
Name	OJ991217_20.0218.C10.o6.gs	Method	GENSCAN
Start	23028	End	23960
GI	none	Score	.97
Exons	23028..23960		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44488	Strand	+
Start	26279	End	36236
Name	OJ991217_20.0218.C10.o8.gs	Method	GENSCAN
Start	26279	End	30262
GI	none	Score	.78
Exons	26279..26476, 26592..26861, 29723..30262		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44488	Strand	+
Start	26279	End	36236
Name	OJ991217_20.0218.C10.o4.np	Method	AAT/NAP
Start	28811	End	32615
GI	6721547	Score	109
Exons	28811..28895, 32535..32615		

GI Descrip. (AP001073) Similar to Oryza sativa gene for Pib. (AB013448)

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44488	Strand	+
Start	26279	End	36236
Name	OJ991217_20.0218.C10.o5.np	Method	AAT/NAP
Start	29990	End	32156
GI	3132476	Score	561
Exons	29990..30187, 31271..31447, 31562..31706, 32053..32156		

GI Descrip. (AC003096) unknown protein [Arabidopsis thaliana]

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44488	Strand	+
Start	26279	End	36236
Name	OJ991217_20.0218.C10.o9.gp	Method	AAT/GAP
Start	30073	End	32338
GI	2506 1.R1084	Score	1297
Exons	30073..30187, 31271..31443, 31561..31706, 32053..32338		
GI Descrip.	'3132476 1.0e-61 (AC003096) unknown protein [Arabidopsis thaliana]'		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44488	Strand	+
Start	26279	End	36236
Name	OJ991217_20.0218.C10.o9.gs	Method	GENSCAN
Start	31319	End	36236
GI	none	Score	.49
Exons	31319..31443, 31561..31706, 32053..32155, 33858..33969, 36135..36236		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44489	Strand	+
Start	38400	End	44093
Name	OJ991217_20.0218.C10.o10.gs	Method	GENSCAN
Start	38400	End	43997
GI	none	Score	.88
Exons	38400..38615, 40093..40175, 40206..40283, 41029..41143, 41740..41782, 41829..41935, 42842..42937, 43395..43585, 43692..43761, 43890..43997		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44489	Strand	+
Start	38400	End	44093
Name	OJ991217_20.0218.C10.o6.np	Method	AAT/NAP
Start	38484	End	44089
GI	4885579	Score	687
Exons	38484..38615, 40853..40924, 41054..41143, 41437..41479, 41829..41935, 42842..42937, 43395..43585, 43692..43761, 43890..43940, 44045..44089		
GI Descrip.	rcd1 (required for cell differentiation, S.pombe) homolog 1 gi 1620898 dbj BAA13508  (D87957) protein involved in sexual development [Homo sapiens]		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44489	Strand	+
Start	38400	End	44093
Name	OJ991217_20.0218.C10.o10.gp	Method	AAT/GAP
Start	38546	End	44093
GI	22234 1.R1084	Score	1673
Exons	38546..38615, 40853..40924, 41054..41143, 41437..41479, 41829..41935, 42842..42937, 43395..43585, 43692..43761, 43890..44093		
GI Descrip.	'1620896/dbj BAA13507  8.0e-94 (D87956) protein involved in sexual development. [Schizosaccharomyces pombe] >gi_2408048_emb_CAB16251_ (Z99164) hypothetical protein [Schizosaccharomyces pombe]'		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
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Gene No.	44490	Strand	+
Start	44262	End	48391
Name	OJ991217_20.0218.C10.o11.gs	Method	GENSCAN
Start	44262	End	48391
GI	none	Score	.74
Exons	44262..44275, 45104..45161, 45260..45316, 45632..45967, 46321..46540, 46924..47164, 47382..47631, 48296..48391		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44490	Strand	+
Start	44262	End	48391
Name	OJ991217_20.0218.C10.o11.gp	Method	AAT/GAP
Start	45086	End	47868
GI	512_1.R1084	Score	2701
Exons	45086..45161, 45260..45316, 45632..45967, 46321..46540, 46924..47164, 47382..47868		

GI Descrip. '729480/sp|P41345|FENS\_ORYSA 0.0e+00 FERREDOXIN--NADP REDUCTASE, ROOT ISOZYME PRECURSOR (FNR) >gi\_435647\_dbj\_BAA04232\_ (D17410) ferredoxin-NADP+ reductase [Oryza sativa] >gi\_902936\_dbj\_BAA07479.1\_ (D38445) root ferredoxin-NADP+ reductase [Oryza sativa] >gi\_1096932\_prf\_2113196A ferredoxin-NADP oxidoreductase [Oryza sativa]'

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44490	Strand	+
Start	44262	End	48391
Name	OJ991217_20.0218.C10.o7.np	Method	AAT/NAP
Start	45138	End	47637
GI	729480	Score	1864
Exons	45138..45161, 45260..45316, 45632..45967, 46321..46540, 46924..47164, 47382..47637		

GI Descrip. FERREDOXIN--NADP REDUCTASE, ROOT ISOZYME PRECURSOR (FNR) gi|435647|dbj|BAA04232| (D17410) ferredoxin-NADP+ reductase [Oryza sativa] gi|902936|dbj|BAA07479.1| (D38445) root ferredoxin-NADP+ reductase [Oryza sativa] gi|1096932|prf||2113196A ferredoxin-NADP oxidoreductase [Oryza sativa]

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44491	Strand	-
Start	11	End	3355
Name	OJ991217_20.0218.C10.o1.gs	Method	GENSCAN
Start	11	End	3355
GI	none	Score	.59
Exons	11..267, 300..363, 1876..2058, 2576..2636, 3331..3355		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44492	Strand	-
Start	5880	End	5979
Name	OJ991217_20.0218.C10.o1.gp	Method	AAT/GAP
Start	5880	End	5979
GI	LIB3477-003-P1-K1-E9	Score	117
Exons	5880..5979		

GI Descrip. '2498586/sp|Q40638|MP01\_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi\_1173557 (U31771) Ory s 1 [Oryza sativa]'

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44493	Strand	-
Start	10647	End	14606
Name	OJ991217_20.0218.C10.o3.gs	Method	GENSCAN
Start	10647	End	14567
GI	none	Score	.63
Exons	10647..11068, 12289..12338, 12542..12610, 13122..13411, 13509..13803, 13929..13999, 14173..14289, 14553..14567		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44493	Strand	-
Start	10647	End	14606
Name	OJ991217_20.0218.C10.o3.gp	Method	AAT/GAP
Start	12618	End	13420
GI	uC-osflcyp101c08b1	Score	970
Exons	12618..12836, 13122..13420		
GI Descrip.	'4835763/gb AAD30230.1 AC007202_12 6.0e-38 (AC007202) T8K14.13 [Arabidopsis thaliana]'		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44493	Strand	-
Start	10647	End	14606
Name	OJ991217_20.0218.C10.o1.np	Method	AAT/NAP
Start	12782	End	14606
GI	4835763	Score	779
Exons	12782..12836, 13122..13411, 13509..13803, 13929..13999, 14173..14312, 14363..14463, 14554..14606		
GI Descrip.	(AC007202) T8K14.13 [Arabidopsis thaliana]		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44493	Strand	-
Start	10647	End	14606
Name	OJ991217_20.0218.C10.o4.gp	Method	AAT/GAP
Start	13559	End	14442
GI	LIB3433-060-P1-K1-H4	Score	859
Exons	13559..13803, 13929..13999, 14173..14289, 14388..14442		
GI Descrip.	'4585976/gb AAD25612.1 AC005287_14 1.0e-43 (AC005287) Unknown protein [Arabidopsis thaliana]'		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44494	Strand	-
Start	25240	End	25967
Name	OJ991217_20.0218.C10.o7.gs	Method	GENSCAN
Start	25240	End	25967
GI	none	Score	.99
Exons	25240..25343, 25814..25967		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44495	Strand	-
Start	26183	End	26600
Name	OJ991217_20.0218.C10.o1.tm	Method	TBLASTX:Maize
Start	12776	End	14631
GI	none	Score	70
Exons	12776..12838, 12781..12837, 13121..13411, 13121..13411, 13122..13415, 13312..13419, 13503..13724, 13504..13719, 13515..13724, 13538..13741, 13718..13807, 13719..13814, 13728..13850, 13753..13851, 13927..13986, 13928..14005,		

13928..13987, 14162..14287, 14169..14288, 14170..14289,  
14173..14292, 14385..14462, 14548..14616, 14550..14624,  
14550..14615, 14554..14631

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44495	Strand	-
Start	26183	End	26600
Name	OJ991217_20.0218.C10.o1.tc	Method	TBLASTX:Cress
Start	13121	End	13749
GI	none	Score	78
Exons	13121..13411, 13121..13411, 13305..13412, 13503..13748, 13504..13632, 13657..13749		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44495	Strand	-
Start	26183	End	26600
Name	OJ991217_20.0218.C10.o9.ts	Method	TBLASTX:Soybean
Start	13121	End	13318
GI	none	Score	79
Exons	13121..13318, 13122..13244		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44495	Strand	-
Start	26183	End	26600
Name	OJ991217_20.0218.C10.o3.ts	Method	TBLASTX:Soybean
Start	13319	End	13969
GI	none	Score	74
Exons	13319..13411, 13323..13403, 13503..13766, 13504..13632, 13548..13748, 13666..13767, 13770..13844, 13928..13969		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44495	Strand	-
Start	26183	End	26600
Name	OJ991217_20.0218.C10.o13.tm	Method	TBLASTX:Maize
Start	16272	End	17248
GI	none	Score	48
Exons	16272..16373, 16272..16379, 16273..16380, 16363..16443, 16440..16523, 16440..16550, 16441..16545, 17126..17248, 17128..17247		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44495	Strand	-
Start	26183	End	26600
Name	OJ991217_20.0218.C10.o3.tm	Method	TBLASTX:Maize
Start	19131	End	19793
GI	none	Score	146
Exons	19131..19343, 19134..19343, 19135..19350, 19345..19374, 19489..19608, 19499..19606, 19568..19783, 19588..19782, 19614..19793, 19614..19793		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44495	Strand	-
Start	26183	End	26600
Name	OJ991217_20.0218.C10.o8.ts	Method	TBLASTX:Soybean
Start	19176	End	19720
GI	none	Score	151
Exons	19176..19232, 19177..19380, 19260..19325, 19494..19595,		

19495..19578, 19495..19605, 19499..19606, 19508..19621,  
19685..19720

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44495	Strand	-
Start	26183	End	26600
Name	OJ991217_20.0218.C10.o6.tm	Method	TBLASTX:Maize
Start	19889	End	20352
GI	none	Score	153
Exons	19889..20050, 19941..19994, 19945..20004, 20020..20169, 20042..20350, 20045..20350, 20284..20352		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44495	Strand	-
Start	26183	End	26600
Name	OJ991217_20.0218.C10.o4.ts	Method	TBLASTX:Soybean
Start	19945	End	20533
GI	none	Score	238
Exons	19945..20163, 19952..20197, 20027..20167, 20195..20317, 20195..20302, 20326..20346, 20327..20461, 20464..20517, 20471..20533		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44495	Strand	-
Start	26183	End	26600
Name	OJ991217_20.0218.C10.o6.tc	Method	TBLASTX:Cress
Start	20053	End	20254
GI	none	Score	240
Exons	20053..20172, 20054..20254, 20075..20254		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44495	Strand	-
Start	26183	End	26600
Name	OJ991217_20.0218.C10.o2.tm	Method	TBLASTX:Maize
Start	20426	End	20873
GI	none	Score	504
Exons	20426..20872, 20431..20628, 20444..20872, 20778..20873		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44495	Strand	-
Start	26183	End	26600
Name	OJ991217_20.0218.C10.o6.ts	Method	TBLASTX:Soybean
Start	20609	End	21154
GI	none	Score	250
Exons	20609..20929, 20609..20845, 20779..20850, 20930..21031, 20959..21024, 21031..21057, 21032..21058, 21079..21150, 21080..21154		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44495	Strand	-
Start	26183	End	26600
Name	OJ991217_20.0218.C10.o1.tw	Method	TBLASTX:Wheat
Start	20757	End	21205
GI	none	Score	159
Exons	20757..21104, 20758..20922, 20780..21061, 21051..21185, 21052..21177, 21052..21186, 21062..21205		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44495	Strand	-
Start	26183	End	26600
Name	OJ991217_20.0218.C10.o11.tm	Method	TBLASTX:Maize
Start	20876	End	21117
GI	none	Score	239
Exons	20876..21085, 20880..21056, 20959..21057, 21078..21116, 21094..21117		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44495	Strand	-
Start	26183	End	26600
Name	OJ991217_20.0218.C10.o9.tm	Method	TBLASTX:Maize
Start	21119	End	22017
GI	none	Score	116
Exons	21119..21229, 21127..21228, 21141..21239, 21738..21995, 21744..21995, 21745..21996, 21895..22017		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44495	Strand	-
Start	26183	End	26600
Name	OJ991217_20.0218.C10.o2.tw	Method	TBLASTX:Wheat
Start	23021	End	23378
GI	none	Score	78
Exons	23021..23086, 23022..23069, 23171..23377, 23205..23378		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44495	Strand	-
Start	26183	End	26600
Name	OJ991217_20.0218.C10.o10.tm	Method	TBLASTX:Maize
Start	23024	End	23378
GI	none	Score	75
Exons	23024..23080, 23025..23069, 23171..23377, 23202..23378		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44495	Strand	-
Start	26183	End	26600
Name	OJ991217_20.0218.C10.o5.tc	Method	TBLASTX:Cress
Start	23202	End	23477
GI	none	Score	265
Exons	23202..23477, 23207..23461		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44495	Strand	-
Start	26183	End	26600
Name	OJ991217_20.0218.C10.o12.tm	Method	TBLASTX:Maize
Start	23427	End	23873
GI	none	Score	111
Exons	23427..23564, 23594..23752, 23595..23756, 23753..23866, 23754..23873		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44495	Strand	-
Start	26183	End	26600
Name	OJ991217_20.0218.C10.o5.ts	Method	TBLASTX:Soybean
Start	23493	End	23924
GI	none	Score	347



Exons 23493..23924, 23597..23869

Seq. No. 21285  
Gene No. 44495  
Start 26183  
Name OJ991217\_20.0218.C10.o8.gp  
Start 26183  
GI 3762204  
Exons 26183..26600

Seq. ID OJ991217\_20.0218.C10  
Strand -  
End 26600  
Method AAT/GAP  
End 26600  
Score 790

Seq. No. 21285  
Gene No. 44496  
Start 27688  
Name OJ991217\_20.0218.C10.o4.tm  
Start 27688  
GI none  
Exons 27688..27861, 47378..47434, 47380..47688, 47430..47687

Seq. ID OJ991217\_20.0218.C10  
Strand  
End 47688  
Method TBLASTX:Maize  
End 47688  
Score 462

Seq. No. 21285  
Gene No. 44496  
Start 27688  
Name OJ991217\_20.0218.C10.o7.tm  
Start 29960  
GI none  
Exons 29960..30082, 29989..30081, 30022..30186, 30053..30232, 31268..31444, 31269..31442, 31270..31443, 31558..31704, 31560..31706, 31562..31711, 32048..32209, 32052..32210

Seq. ID OJ991217\_20.0218.C10  
Strand  
End 47688  
Method TBLASTX:Maize  
End 32210  
Score 115

Seq. No. 21285  
Gene No. 44496  
Start 27688  
Name OJ991217\_20.0218.C10.o2.ts  
Start 30068  
GI none  
Exons 30068..30187, 30091..30198, 31268..31444, 31269..31427, 31270..31443, 31561..31704, 31562..31705, 31575..31706, 32052..32159

Seq. ID OJ991217\_20.0218.C10  
Strand  
End 47688  
Method TBLASTX:Soybean  
End 32159  
Score 132

Seq. No. 21285  
Gene No. 44496  
Start 27688  
Name OJ991217\_20.0218.C10.o7.tc  
Start 30071  
GI none  
Exons 30071..30187, 30073..30198, 31268..31513, 31270..31461, 31561..31674, 31564..31668, 31565..31705, 31565..31669

Seq. ID OJ991217\_20.0218.C10  
Strand  
End 47688  
Method TBLASTX:Cress  
End 31705  
Score 143

Seq. No. 21285  
Gene No. 44496  
Start 27688  
Name OJ991217\_20.0218.C10.o8.tc  
Start 38400  
GI none  
Exons 38400..38429, 38526..38615, 40850..40924, 41045..41143, 41050..41142, 41428..41502

Seq. ID OJ991217\_20.0218.C10  
Strand  
End 47688  
Method TBLASTX:Cress  
End 41502  
Score 38

Seq. No. 21285 Seq. ID OJ991217\_20.0218.C10

Gene No.	44496	Strand	
Start	27688	End	47688
Name	OJ991217_20.0218.C10.o7.ts	Method	TBLASTX:Soybean
Start	38526	End	43973
GI	none	Score	125
Exons	38526..38615, 38526..38615, 40798..40917, 40850..40924, 41045..41143, 41050..41142, 41428..41502, 41825..41938, 41827..41937, 42815..42922, 42818..42949, 42841..42939, 43289..43585, 43395..43586, 43690..43761, 43854..43973		
Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44496	Strand	
Start	27688	End	47688
Name	OJ991217_20.0218.C10.o8.tm	Method	TBLASTX:Maize
Start	41884	End	43980
GI	none	Score	85
Exons	41884..41937, 41885..41938, 42818..42949, 42841..42939, 43328..43585, 43395..43586, 43402..43620, 43689..43757, 43690..43761, 43854..43979, 43862..43939, 43863..43979, 43870..43980		
Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44496	Strand	
Start	27688	End	47688
Name	OJ991217_20.0218.C10.o4.tc	Method	TBLASTX:Cress
Start	42853	End	44033
GI	none	Score	135
Exons	42853..42939, 42854..42949, 43340..43585, 43395..43586, 43405..43599, 43690..43761, 43863..44033		
Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44496	Strand	
Start	27688	End	47688
Name	OJ991217_20.0218.C10.o3.tw	Method	TBLASTX:Wheat
Start	45133	End	45865
GI	none	Score	51
Exons	45133..45165, 45133..45171, 45254..45283, 45283..45315, 45284..45316, 45629..45700, 45629..45703, 45631..45708, 45721..45861, 45728..45865, 45729..45863		
Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44496	Strand	
Start	27688	End	47688
Name	OJ991217_20.0218.C10.o5.tm	Method	TBLASTX:Maize
Start	45625	End	47176
GI	none	Score	228
Exons	45625..45951, 45629..45976, 45629..45964, 45664..45966, 46320..46541, 46321..46542, 46922..47044, 46922..47053, 46923..47057, 47040..47165, 47040..47165, 47041..47166, 47108..47176		
Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44496	Strand	
Start	27688	End	47688
Name	OJ991217_20.0218.C10.o3.tc	Method	TBLASTX:Cress
Start	45635	End	47117
GI	none	Score	44

Exons 45635..45667, 45710..45976, 45775..45966, 46320..46541,  
46321..46542, 46324..46542, 46922..47116, 46923..47117,  
46938..47117

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44496	Strand	
Start	27688	End	47688
Name	OJ991217_20.0218.C10.o1.ts	Method	TBLASTX:Soybean
Start	45724	End	47655
GI	none	Score	390
Exons	45724..45966, 45725..45976, 46320..46541, 46321..46542, 46922..47095, 46923..47165, 46926..47162, 47380..47655, 47398..47544, 47430..47651		

Seq. No.	21285	Seq. ID	OJ991217_20.0218.C10
Gene No.	44496	Strand	
Start	27688	End	47688
Name	OJ991217_20.0218.C10.o2.tc	Method	TBLASTX:Cress
Start	47118	End	47640
GI	none	Score	65
Exons	47118..47165, 47372..47437, 47380..47640, 47380..47544, 47430..47633		

Seq. No.	21286	Seq. ID	OJ991217_20.0218.C11
Gene No.	44497	Strand	+
Start	459	End	479
Name	OJ991217_20.0218.C11.o1.gs	Method	GENSCAN
Start	459	End	479
GI	none	Score	.63
Exons	459..479		

Seq. No.	21287	Seq. ID	OJ991217_20.0218.C12
Gene No.	44498	Strand	-
Start	41	End	388
Name	OJ991217_20.0218.C12.o1.gs	Method	GENSCAN
Start	41	End	388
GI	none	Score	.62
Exons	41..121, 289..388		

Seq. No.	21288	Seq. ID	OJ991217_20.0218.C13
Gene No.	44499	Strand	+
Start	48	End	129
Name	OJ991217_20.0218.C13.o1.gs	Method	GENSCAN
Start	48	End	129
GI	none	Score	.99
Exons	48..129		

Seq. No.	21289	Seq. ID	OJ991217_20.0218.C15
Gene No.	44500	Strand	-
Start	1	End	367
Name	OJ991217_20.0218.C15.o1.np	Method	AAT/NAP
Start	1	End	367
GI	4206200	Score	148
Exons	1..367		
GI Descrip.	(AF071527) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	21290	Seq. ID	OJ991217_20.0218.C17
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Gene No.	44501	Strand	+
Start	25	End	215
Name	OJ991217_20.0218.C17.o1.gs	Method	GENSCAN
Start	25	End	215
GI	none	Score	.56
Exons	25..215		
Seq. No.	21291	Seq. ID	OJ991217_20.0218.C19
Gene No.	44502	Strand	-
Start	413	End	1146
Name	OJ991217_20.0218.C19.o1.gs	Method	GENSCAN
Start	413	End	1146
GI	none	Score	.88
Exons	413..543, 917..1058, 1120..1146		
Seq. No.	21292	Seq. ID	OJ991217_20.0218.C24
Gene No.	44503	Strand	+
Start	184	End	327
Name	OJ991217_20.0218.C24.o1.gp	Method	AAT/GAP
Start	184	End	327
GI	11912_1.R1084	Score	244
Exons	184..327		
GI Descrip.	'5803242/dbj AP000399.1 AP000399 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04'		
Seq. No.	21293	Seq. ID	OJ991217_20.0218.C25
Gene No.	44504	Strand	-
Start	296	End	355
Name	OJ991217_20.0218.C25.o1.gs	Method	GENSCAN
Start	296	End	355
GI	none	Score	.66
Exons	296..355		
Seq. No.	21294	Seq. ID	OJ991217_10.0218.C2
Gene No.	44505	Strand	+
Start	242	End	433
Name	OJ991217_10.0218.C2.o1.gs	Method	GENSCAN
Start	242	End	433
GI	none	Score	.99
Exons	242..433		
Seq. No.	21295	Seq. ID	OJ991217_10.0218.C3
Gene No.	44506	Strand	+
Start	1733	End	1969
Name	OJ991217_10.0218.C3.o1.gs	Method	GENSCAN
Start	1733	End	1969
GI	none	Score	.57
Exons	1733..1969		
Seq. No.	21295	Seq. ID	OJ991217_10.0218.C3
Gene No.	44507	Strand	+
Start	2506	End	2874
Name	OJ991217_10.0218.C3.o2.gs	Method	GENSCAN
Start	2506	End	2874
GI	none	Score	.99
Exons	2506..2874		

Seq. No.	21295	Seq. ID	OJ991217_10.0218.C3
Gene No.	44508	Strand	+
Start	10377	End	16555
Name	OJ991217_10.0218.C3.o4.gs	Method	GENSCAN
Start	10377	End	16555
GI	none	Score	.54
Exons	10377..10920, 11299..12034, 12219..12950, 12970..13342, 14241..14342, 14445..14560, 14754..14973, 15212..15378, 15474..15586, 16146..16555		

Seq. No.	21295	Seq. ID	OJ991217_10.0218.C3
Gene No.	44509	Strand	-
Start	112	End	193
Name	OJ991217_10.0218.C3.o1.gp	Method	AAT/GAP
Start	112	End	193
GI	LIB3474-001-P1-K1-D2	Score	83
Exons	112..193		
GI Descrip.	'3123271/sp P51430 RS6 ARATH 8.0e-36 40S RIBOSOMAL PROTEIN S6 >gi 2224751_emb_CAA74381_ (Y14052) ribosomal protein S6 [Arabidopsis thaliana]'		

Seq. No.	21295	Seq. ID	OJ991217_10.0218.C3
Gene No.	44510	Strand	-
Start	2662	End	3089
Name	OJ991217_10.0218.C3.o2.gp	Method	AAT/GAP
Start	2662	End	3089
GI	none	Score	787
Exons	2662..3089		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44511	Strand	+
Start	1	End	33767
Name	OJ991217_10.0218.C4.o3.np	Method	AAT/NAP
Start	1	End	33767
GI	5917664	Score	193
Exons	1..67, 730..967, 10297..10795, 11700..11723, 15351..15391, 15665..15714, 29534..29639, 33717..33767		
GI Descrip.	(AF159296) extensin-like protein [Lycopersicon esculentum]		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44511	Strand	+
Start	1	End	33767
Name	OJ991217_10.0218.C4.o1.gs	Method	GENSCAN
Start	737	End	12746
GI	none	Score	.44
Exons	737..781, 1125..1183, 2010..2274, 2357..2497, 2968..3103, 4230..4355, 5440..5490, 6171..6303, 8907..9189, 9403..9501, 10463..10805, 10865..10956, 11958..12154, 12195..12445, 12646..12746		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44511	Strand	+
Start	1	End	33767
Name	OJ991217_10.0218.C4.o1.np	Method	AAT/NAP
Start	837	End	3127
GI	6651069	Score	170
Exons	837..1036, 2010..2201, 2654..2760, 3075..3127		

GI Descrip. (AF134217) 107 protein [Arabidopsis thaliana]

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44511	Strand	+
Start	1	End	33767
Name	OJ991217_10.0218.C4.o2.np	Method	AAT/NAP
Start	2321	End	4394
GI	5734626	Score	167

Exons 2321..2537, 4147..4394

GI Descrip. (AP000391) Similar to mouse ankyrin 3 (AC005727) [Oryza sativa]

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44511	Strand	+
Start	1	End	33767
Name	OJ991217_10.0218.C4.o3.gs	Method	GENSCAN
Start	16612	End	23993
GI	none	Score	.64

Exons 16612..16730, 16867..17064, 18022..18070, 18111..18263, 18704..18735, 19412..19523, 19623..19656, 20468..20648, 20941..22179, 22260..23386, 23749..23829, 23926..23993

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44511	Strand	+
Start	1	End	33767
Name	OJ991217_10.0218.C4.o1.gp	Method	AAT/GAP
Start	18767	End	19436
GI	3107362	Score	610

Exons 18767..18882, 19149..19334, 19412..19436

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44511	Strand	+
Start	1	End	33767
Name	OJ991217_10.0218.C4.o2.gp	Method	AAT/GAP
Start	21587	End	22113
GI	none	Score	957

Exons 21587..22113

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44512	Strand	+
Start	37151	End	44076
Name	OJ991217_10.0218.C4.o7.gs	Method	GENSCAN
Start	37151	End	44076
GI	none	Score	.75

Exons 37151..37440, 37513..37573, 37712..37813, 38669..38756, 39197..39270, 39392..39690, 40012..40369, 40455..40665, 40726..40997, 41176..41448, 41759..41837, 43090..43378, 43899..44076

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44512	Strand	+
Start	37151	End	44076
Name	OJ991217_10.0218.C4.o5.np	Method	AAT/NAP
Start	37957	End	41457
GI	3786007	Score	1205

Exons 37957..37991, 39458..39690, 40012..40369, 40455..40997, 41179..41457

GI Descrip. (AC005499) hypothetical protein [Arabidopsis thaliana]

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44512	Strand	+
Start	37151	End	44076
Name	OJ991217_10.0218.C4.o4.gp	Method	AAT/GAP
Start	40851	End	41448
GI	uC-osflcyp106h11b1	Score	792
Exons	40851..40997, 41176..41448		
GI Descrip.	'3786007 4.0e-38 (AC005499) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44513	Strand	+
Start	44194	End	44588
Name	OJ991217_10.0218.C4.o6.gp	Method	AAT/GAP
Start	44194	End	44588
GI	uC-osflcyp098d01a1	Score	703
Exons	44194..44588		
GI Descrip.	'6069643/dbj AP000616.1 AP000616 1.0e-152 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44514	Strand	-
Start	14835	End	15712
Name	OJ991217_10.0218.C4.o2.gs	Method	GENSCAN
Start	14835	End	15712
GI	none	Score	.48
Exons	14835..14985, 15210..15712		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44515	Strand	-
Start	24120	End	24259
Name	OJ991217_10.0218.C4.o3.gp	Method	AAT/GAP
Start	24120	End	24259
GI	none	Score	257
Exons	24120..24259		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44516	Strand	-
Start	25294	End	29890
Name	OJ991217_10.0218.C4.o4.gs	Method	GENSCAN
Start	25294	End	29890
GI	none	Score	.8
Exons	25294..25458, 25560..25715, 25851..25946, 26093..26285, 26378..26438, 26481..26802, 27294..27497, 27605..27755, 29249..29376, 29469..29704, 29842..29890		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44516	Strand	-
Start	25294	End	29890
Name	OJ991217_10.0218.C4.o4.np	Method	AAT/NAP
Start	25297	End	29621
GI	1346735	Score	2229
Exons	25297..25458, 25560..25715, 25851..25946, 26093..26285, 26378..26802, 27294..27497, 27605..27755, 29249..29376, 29469..29621		
GI Descrip.	2,3-BISPHOSPHOGLYCERATE-INDEPENDENT PHOSPHOGLYCERATE MUTASE		

(PHOSPHOGLYCEROMUTASE) (BPG-INDEPENDENT PGAM) (PGAM-I)  
gi|1076562|pir||S49647 phosphoglycerate mutase (EC 5.4.2.1) -  
castor bean gi|474170|emb|CAA49995| (X70652) phosphoglycerate  
mutase [Ricinus communis]

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44517	Strand	-
Start	32499	End	32918
Name	OJ991217_10.0218.C4.o5.gs	Method	GENSCAN
Start	32499	End	32918
GI	none	Score	.51
Exons	32499..32918		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44518	Strand	-
Start	41656	End	42028
Name	OJ991217_10.0218.C4.o5.gp	Method	AAT/GAP
Start	41656	End	42028
GI	none	Score	714
Exons	41656..42028		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44519	Strand	-
Start	44608	End	57267
Name	OJ991217_10.0218.C4.o3.tc	Method	TBLASTX:Cress
Start	2300	End	2503
GI	none	Score	299
Exons	2300..2503, 2308..2496		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44519	Strand	-
Start	44608	End	57267
Name	OJ991217_10.0218.C4.o10.tm	Method	TBLASTX:Maize
Start	2302	End	2533
GI	none	Score	274
Exons	2302..2493, 2303..2533, 2303..2494		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44519	Strand	-
Start	44608	End	57267
Name	OJ991217_10.0218.C4.o6.ts	Method	TBLASTX:Soybean
Start	2321	End	2663
GI	none	Score	237
Exons	2321..2509, 2323..2499, 2574..2663		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44519	Strand	-
Start	44608	End	57267
Name	OJ991217_10.0218.C4.o7.tm	Method	TBLASTX:Maize
Start	21383	End	21673
GI	none	Score	393
Exons	21383..21673, 21391..21669		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44519	Strand	-
Start	44608	End	57267
Name	OJ991217_10.0218.C4.o6.tm	Method	TBLASTX:Maize



Start	21686	End	22179
GI	none	Score	399
Exons	21686..22084, 21735..22112, 21754..22089, 22060..22176, 22066..22179, 22095..22178		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44519	Strand	-
Start	44608	End	57267
Name	OJ991217_10.0218.C4.o13.tm	Method	TBLASTX:Maize
Start	22431	End	22821
GI	none	Score	73
Exons	22431..22538, 22431..22469, 22533..22571, 22540..22773, 22576..22773, 22581..22790, 22688..22816, 22735..22821, 22768..22812, 22772..22819		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44519	Strand	-
Start	44608	End	57267
Name	OJ991217_10.0218.C4.o3.tm	Method	TBLASTX:Maize
Start	22847	End	24145
GI	none	Score	105
Exons	22847..22927, 22867..22926, 22936..23010, 22936..23007, 22945..23400, 22987..23430, 23004..23417, 23716..23823, 23746..23823, 23747..23827, 23748..23828, 23923..23985, 23924..23992, 23924..23992, 24007..24027, 24007..24027, 24094..24126, 24094..24132, 24095..24145		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44519	Strand	-
Start	44608	End	57267
Name	OJ991217_10.0218.C4.o7.ts	Method	TBLASTX:Soybean
Start	23109	End	23328
GI	none	Score	175
Exons	23109..23231, 23110..23241, 23233..23328, 23233..23328		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44519	Strand	-
Start	44608	End	57267
Name	OJ991217_10.0218.C4.o1.tc	Method	TBLASTX:Cress
Start	25285	End	29609
GI	none	Score	76
Exons	25285..25458, 25289..25459, 25557..25712, 25557..25721, 25558..25716, 25812..25946, 25831..26007, 26090..26287, 26091..26300, 26378..26803, 26378..26620, 26379..26804, 26380..26805, 26380..26805, 27286..27498, 27294..27503, 27600..27755, 27602..27760, 29248..29376, 29249..29389, 29472..29609, 29473..29532		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44519	Strand	-
Start	44608	End	57267
Name	OJ991217_10.0218.C4.o1.tm	Method	TBLASTX:Maize
Start	25290	End	29630
GI	none	Score	78
Exons	25290..25481, 25294..25458, 25337..25468, 25557..25721, 25558..25716, 25578..25730, 25589..25723, 25812..25946, 25831..25947, 25851..25949, 26082..26300, 26090..26287,		

26109..26300, 26378..26803, 26378..26803, 26380..26805,  
 26380..26805, 27286..27519, 27294..27503, 27600..27755,  
 27602..27760, 29248..29376, 29249..29377, 29470..29535,  
 29472..29630

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44519	Strand	-
Start	44608	End	57267
Name	OJ991217_10.0218.C4.o1.ts	Method	TBLASTX:Soybean
Start	25294	End	29609
GI	none	Score	83
Exons	25294..25482, 25300..25464, 25349..25483, 25558..25716, 25569..25730, 25569..25730, 25577..25738, 25812..25946, 25831..26007, 25850..25972, 26082..26300, 26090..26287, 26352..26549, 26378..26803, 26378..26803, 26380..26805, 26380..26805, 27286..27501, 27294..27503, 27294..27503, 27600..27755, 27602..27760, 27605..27757, 29248..29379, 29249..29377, 29469..29609, 29470..29535		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44519	Strand	-
Start	44608	End	57267
Name	OJ991217_10.0218.C4.o2.tw	Method	TBLASTX:Wheat
Start	25294	End	25676
GI	none	Score	94
Exons	25294..25458, 25300..25452, 25346..25459, 25557..25676, 25558..25668		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44519	Strand	-
Start	44608	End	57267
Name	OJ991217_10.0218.C4.o1.tw	Method	TBLASTX:Wheat
Start	25836	End	26797
GI	none	Score	78
Exons	25836..25916, 25845..25916, 25917..25946, 26082..26300, 26090..26287, 26092..26289, 26109..26300, 26378..26797, 26378..26773, 26380..26796		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44519	Strand	-
Start	44608	End	57267
Name	OJ991217_10.0218.C4.o15.tm	Method	TBLASTX:Maize
Start	36867	End	37773
GI	none	Score	192
Exons	36867..36902, 36986..37003, 37150..37266, 37151..37267, 37708..37773		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44519	Strand	-
Start	44608	End	57267
Name	OJ991217_10.0218.C4.o4.ts	Method	TBLASTX:Soybean
Start	39511	End	40387
GI	none	Score	192
Exons	39511..39684, 39515..39685, 39515..39685, 40016..40252, 40016..40207, 40030..40239, 40068..40241, 40318..40356, 40319..40372, 40322..40387		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44519	Strand	-
Start	44608	End	57267
Name	OJ991217_10.0218.C4.o4.tc	Method	TBLASTX:Cress
Start	40022	End	40930
GI	none	Score	163
Exons	40022..40234, 40033..40227, 40298..40369, 40470..40571, 40683..40727, 40779..40850, 40910..40930		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44519	Strand	-
Start	44608	End	57267
Name	OJ991217_10.0218.C4.o2.tm	Method	TBLASTX:Maize
Start	40033	End	41292
GI	none	Score	66
Exons	40033..40080, 40034..40078, 40078..40263, 40079..40264, 40082..40264, 40086..40268, 40089..40310, 40259..40363, 40273..40365, 40286..40369, 40452..40730, 40454..41005, 40475..40969, 40782..41000, 41217..41291, 41221..41292		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44519	Strand	-
Start	44608	End	57267
Name	OJ991217_10.0218.C4.o9.ts	Method	TBLASTX:Soybean
Start	41185	End	41460
GI	none	Score	196
Exons	41185..41460		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44519	Strand	-
Start	44608	End	57267
Name	OJ991217_10.0218.C4.o5.tc	Method	TBLASTX:Cress
Start	41218	End	41445
GI	none	Score	191
Exons	41218..41445		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44519	Strand	-
Start	44608	End	57267
Name	OJ991217_10.0218.C4.o5.tm	Method	TBLASTX:Maize
Start	41307	End	42002
GI	none	Score	168
Exons	41307..41477, 41315..41488, 41317..41526, 41318..41533, 41320..41532, 41559..41654, 41560..41652, 41561..41653, 41571..41654, 41647..41703, 41647..41703, 41681..41719, 41734..41754, 41768..41863, 41773..41904, 41778..41864, 41884..41910, 41885..41917, 41885..41923, 41909..41947, 41911..41934, 41948..42001, 41949..42002		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44519	Strand	-
Start	44608	End	57267
Name	OJ991217_10.0218.C4.o4.tw	Method	TBLASTX:Wheat
Start	41434	End	41805
GI	none	Score	38
Exons	41434..41484, 41436..41480, 41470..41523, 41504..41533, 41518..41727, 41557..41727, 41564..41734, 41565..41732,		

41735..41803, 41737..41805

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44519	Strand	-
Start	44608	End	57267
Name	OJ991217_10.0218.C4.o8.gs	Method	GENSCAN
Start	44608	End	57267
GI	none	Score	.71
Exons	44608..44934, 45238..45307, 45785..45836, 46447..46648, 47266..47444, 48752..48948, 49229..49342, 50032..50106, 51653..52059, 52350..52440, 52708..53186, 53275..53510, 53607..54116, 54199..54674, 54761..54895, 55162..55236, 55502..55573, 55836..55910, 56004..56165, 56412..56486, 56749..56875, 57153..57267		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44519	Strand	-
Start	44608	End	57267
Name	OJ991217_10.0218.C4.o6.np	Method	AAT/NAP
Start	44614	End	47342
GI	4519671	Score	387
Exons	44614..44934, 45238..45307, 45785..45839, 46129..46171, 46260..46336, 46447..46660, 47266..47342		
GI Descrip.	(AB017693) transfactor [Nicotiana tabacum]		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44519	Strand	-
Start	44608	End	57267
Name	OJ991217_10.0218.C4.o5.ts	Method	TBLASTX:Soybean
Start	45235	End	46522
GI	none	Score	42
Exons	45235..45291, 46109..46177, 46131..46172, 46260..46334, 46260..46337, 46261..46335, 46448..46522, 46449..46517		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44519	Strand	-
Start	44608	End	57267
Name	OJ991217_10.0218.C4.o12.tm	Method	TBLASTX:Maize
Start	46128	End	46522
GI	none	Score	45
Exons	46128..46172, 46130..46177, 46260..46340, 46264..46338, 46445..46522, 46446..46517		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44519	Strand	-
Start	44608	End	57267
Name	OJ991217_10.0218.C4.o9.tm	Method	TBLASTX:Maize
Start	47265	End	47803
GI	none	Score	109
Exons	47265..47342, 47266..47364, 47278..47358, 47354..47413, 47394..47486, 47483..47599, 47484..47591, 47485..47601, 47485..47598, 47486..47599, 47563..47739, 47607..47741, 47609..47740, 47623..47742, 47724..47795, 47741..47803		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44519	Strand	-
Start	44608	End	57267

Name OJ991217\_10.0218.C4.o7.np Method AAT/NAP  
 Start 51861 End 54655  
 GI 6522608 Score 512  
 Exons 51861..51958, 52734..53186, 53275..53510, 53607..54111, 54432..54655  
 GI Descrip. (AL133298) receptor-like protein kinase homolog [Arabidopsis thaliana]

Seq. No. 21296 Seq. ID OJ991217\_10.0218.C4  
 Gene No. 44519 Strand -  
 Start 44608 End 57267  
 Name OJ991217\_10.0218.C4.o14.tm Method TBLASTX:Maize  
 Start 52627 End 52854  
 GI none Score 136  
 Exons 52627..52764, 52668..52763, 52757..52780, 52761..52853, 52762..52854

Seq. No. 21296 Seq. ID OJ991217\_10.0218.C4  
 Gene No. 44519 Strand -  
 Start 44608 End 57267  
 Name OJ991217\_10.0218.C4.o8.tm Method TBLASTX:Maize  
 Start 52854 End 53136  
 GI none Score 117  
 Exons 52854..52973, 52897..52989, 52961..53065, 52968..53123, 52968..53135, 52972..53136

Seq. No. 21296 Seq. ID OJ991217\_10.0218.C4  
 Gene No. 44519 Strand -  
 Start 44608 End 57267  
 Name OJ991217\_10.0218.C4.o2.tc Method TBLASTX:Cress  
 Start 53079 End 53910  
 GI none Score 82  
 Exons 53079..53186, 53095..53187, 53275..53520, 53279..53419, 53596..53802, 53809..53850, 53866..53910

Seq. No. 21296 Seq. ID OJ991217\_10.0218.C4  
 Gene No. 44519 Strand -  
 Start 44608 End 57267  
 Name OJ991217\_10.0218.C4.o2.ts Method TBLASTX:Soybean  
 Start 53079 End 53904  
 GI none Score 91  
 Exons 53079..53186, 53089..53187, 53278..53493, 53279..53413, 53335..53487, 53603..53803, 53605..53904

Seq. No. 21296 Seq. ID OJ991217\_10.0218.C4  
 Gene No. 44519 Strand -  
 Start 44608 End 57267  
 Name OJ991217\_10.0218.C4.o4.tm Method TBLASTX:Maize  
 Start 53299 End 53979  
 GI none Score 115  
 Exons 53299..53511, 53306..53527, 53603..53812, 53605..53946, 53861..53947, 53929..53979

Seq. No. 21296 Seq. ID OJ991217\_10.0218.C4  
 Gene No. 44519 Strand -  
 Start 44608 End 57267  
 Name OJ991217\_10.0218.C4.o3.tw Method TBLASTX:Wheat

Start	53383	End	53803
GI	none	Score	139
Exons	53383..53505, 53383..53502, 53594..53803, 53611..53802		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44519	Strand	-
Start	44608	End	57267
Name	OJ991217_10.0218.C4.o3.ts	Method	TBLASTX:Soybean
Start	54200	End	54616
GI	none	Score	203
Exons	54200..54544, 54201..54536, 54557..54616		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44519	Strand	-
Start	44608	End	57267
Name	OJ991217_10.0218.C4.o8.ts	Method	TBLASTX:Soybean
Start	54763	End	55399
GI	none	Score	47
Exons	54763..54891, 54980..55057, 54985..55056, 55143..55247, 55176..55235, 55331..55399		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44519	Strand	-
Start	44608	End	57267
Name	OJ991217_10.0218.C4.o10.ts	Method	TBLASTX:Soybean
Start	56018	End	56485
GI	none	Score	79
Exons	56018..56182, 56039..56176, 56261..56329, 56432..56485		

Seq. No.	21296	Seq. ID	OJ991217_10.0218.C4
Gene No.	44519	Strand	-
Start	44608	End	57267
Name	OJ991217_10.0218.C4.o11.tm	Method	TBLASTX:Maize
Start	56587	End	56895
GI	none	Score	74
Exons	56587..56661, 56590..56661, 56594..56668, 56743..56895, 56748..56894		

Seq. No.	21297	Seq. ID	OJ991217_10.0218.C5
Gene No.	44520	Strand	+
Start	5593	End	7087
Name	OJ991217_10.0218.C5.o1.np	Method	AAT/NAP
Start	5593	End	7087
GI	6907105	Score	291
Exons	5593..5820, 7059..7087		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	21297	Seq. ID	OJ991217_10.0218.C5
Gene No.	44520	Strand	+
Start	5593	End	7087
Name	OJ991217_10.0218.C5.o2.gs	Method	GENSCAN
Start	5593	End	6216
GI	none	Score	.61
Exons	5593..5821, 6017..6216		

Seq. No.	21297	Seq. ID	OJ991217_10.0218.C5
Gene No.	44521	Strand	-

Start	367	End	512
Name	OJ991217_10.0218.C5.o1.gp	Method	AAT/GAP
Start	367	End	512
GI	56410_1.R1084	Score	266
Exons	367..512		
GI Descrip.	'5852170/emb AL117265.1 OST17804 3.0e-94 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	21297	Seq. ID	OJ991217_10.0218.C5
Gene No.	44522	Strand	-
Start	1038	End	4616
Name	OJ991217_10.0218.C5.o1.gs	Method	GENSCAN
Start	1038	End	4616
GI	none	Score	.89
Exons	1038..1143, 1508..1654, 3921..4156, 4250..4327, 4359..4616		

Seq. No.	21297	Seq. ID	OJ991217_10.0218.C5
Gene No.	44522	Strand	-
Start	1038	End	4616
Name	OJ991217_10.0218.C5.o2.gp	Method	AAT/GAP
Start	1180	End	4535
GI	4254_1.R1084	Score	1887
Exons	1180..1654, 3921..4156, 4250..4535		
GI Descrip.	'1651865/dbj BAA16792  4.0e-14 (D90900) hypothetical protein [Synechocystis sp.]'		

Seq. No.	21297	Seq. ID	OJ991217_10.0218.C5
Gene No.	44523	Strand	-
Start	7021	End	7609
Name	OJ991217_10.0218.C5.o1.tm	Method	TBLASTX:Maize
Start	1285	End	4442
GI	none	Score	45
Exons	1285..1347, 1310..1378, 1312..1392, 1323..1391, 1392..1652, 1407..1649, 1412..1660, 1414..1659, 3911..4009, 3920..4159, 3921..4019, 4107..4163, 4107..4166, 4250..4279, 4267..4305, 4268..4342, 4335..4442, 4352..4441		

Seq. No.	21297	Seq. ID	OJ991217_10.0218.C5
Gene No.	44523	Strand	-
Start	7021	End	7609
Name	OJ991217_10.0218.C5.o1.ts	Method	TBLASTX:Soybean
Start	1486	End	4288
GI	none	Score	159
Exons	1486..1659, 1487..1660, 3920..4141, 3921..4019, 4107..4139, 4256..4288, 4257..4286		

Seq. No.	21297	Seq. ID	OJ991217_10.0218.C5
Gene No.	44523	Strand	-
Start	7021	End	7609
Name	OJ991217_10.0218.C5.o1.tc	Method	TBLASTX:Cress
Start	1540	End	4141
GI	none	Score	63
Exons	1540..1659, 1544..1660, 3836..4141, 3911..4003, 3921..4019, 4107..4139		

Seq. No.	21297	Seq. ID	OJ991217_10.0218.C5
Gene No.	44523	Strand	-

Start 7021  
 Name OJ991217\_10.0218.C5.o3.gs  
 Start 7021  
 GI none  
 Exons 7021..7378

End 7609  
 Method GENSCAN  
 End 7378  
 Score .84

Seq. No. 21297  
 Gene No. 44523  
 Start 7021  
 Name OJ991217\_10.0218.C5.o2.np  
 Start 7041  
 GI 5852180  
 Exons 7041..7282, 7468..7609  
 GI Descrip. (AL117265) zhb00010.1 [Oryza sativa]

Seq. ID OJ991217\_10.0218.C5  
 Strand -  
 End 7609  
 Method AAT/NAP  
 End 7609  
 Score 51

Seq. No. 21298  
 Gene No. 44524  
 Start 869  
 Name OJ991217\_10.0218.C6.o1.gs  
 Start 869  
 GI none  
 Exons 869..1663

Seq. ID OJ991217\_10.0218.C6  
 Strand +  
 End 1663  
 Method GENSCAN  
 End 1663  
 Score .98

Seq. No. 21298  
 Gene No. 44525  
 Start 1891  
 Name OJ991217\_10.0218.C6.o1.np  
 Start 1891  
 GI 4680179  
 Exons 1891..2951, 2979..6335  
 GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. ID OJ991217\_10.0218.C6  
 Strand +  
 End 11635  
 Method AAT/NAP  
 End 6335  
 Score 5607

Seq. No. 21298  
 Gene No. 44525  
 Start 1891  
 Name OJ991217\_10.0218.C6.o2.np  
 Start 3458  
 GI 6063554  
 Exons 3458..3543, 6722..6946, 7110..7339, 8483..8666  
 GI Descrip. (AP000615) ESTs AU075609(C63344), C71850(E0464), C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. ID OJ991217\_10.0218.C6  
 Strand +  
 End 11635  
 Method AAT/NAP  
 End 8666  
 Score 194

Seq. No. 21298  
 Gene No. 44525  
 Start 1891  
 Name OJ991217\_10.0218.C6.o3.np  
 Start 8003  
 GI 6539581  
 Exons 8003..8022, 9290..9469, 9575..11414, 11489..11635  
 GI Descrip. (AP000837) Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone F20D10; hypothetical protein (AL035538) [Oryza sativa]

Seq. ID OJ991217\_10.0218.C6  
 Strand +  
 End 11635  
 Method AAT/NAP  
 End 11635  
 Score 2128

Seq. No. 21298  
 Gene No. 44525  
 Start 1891  
 Name OJ991217\_10.0218.C6.o1.gp

Seq. ID OJ991217\_10.0218.C6  
 Strand +  
 End 11635  
 Method AAT/GAP



Start 8044 End 8426  
 GI 2427387 Score 508  
 Exons 8044..8426  
 GI Descrip. 5852170/emb|AL117265.1|OST17804 3.0e-94 Oryza sativa  
 indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804

Seq. No. 21298 Seq. ID OJ991217\_10.0218.C6  
 Gene No. 44526 Strand +  
 Start 11939 End 13507  
 Name OJ991217\_10.0218.C6.o4.np Method AAT/NAP  
 Start 11939 End 13507  
 GI 4680186 Score 196  
 Exons 11939..12108, 12690..12823, 13462..13507  
 GI Descrip. (AF111709) unknown [Oryza sativa subsp. indica]

Seq. No. 21298 Seq. ID OJ991217\_10.0218.C6  
 Gene No. 44527 Strand +  
 Start 14107 End 16278  
 Name OJ991217\_10.0218.C6.o5.np Method AAT/NAP  
 Start 13977 End 15860  
 GI 6907086 Score 517  
 Exons 13977..14752, 14811..14958, 15141..15374, 15601..15860  
 GI Descrip. (AP001129) hypothetical protein [Oryza sativa]

Seq. No. 21298 Seq. ID OJ991217\_10.0218.C6  
 Gene No. 44527 Strand +  
 Start 14107 End 16278  
 Name OJ991217\_10.0218.C6.o5.gs Method GENSCAN  
 Start 14107 End 16278  
 GI none Score .41  
 Exons 14107..14887, 15057..15150, 15180..15354, 16204..16278

Seq. No. 21298 Seq. ID OJ991217\_10.0218.C6  
 Gene No. 44528 Strand -  
 Start 7091 End 8479  
 Name OJ991217\_10.0218.C6.o3.gs Method GENSCAN  
 Start 7091 End 8479  
 GI none Score .93  
 Exons 7091..7336, 7365..7612, 8398..8479

Seq. No. 21298 Seq. ID OJ991217\_10.0218.C6  
 Gene No. 44529 Strand -  
 Start 12248 End 12674  
 Name OJ991217\_10.0218.C6.o11.tw Method TBLASTX:Wheat  
 Start 2102 End 2297  
 GI none Score 207  
 Exons 2102..2293, 2103..2297

Seq. No. 21298 Seq. ID OJ991217\_10.0218.C6  
 Gene No. 44529 Strand -  
 Start 12248 End 12674  
 Name OJ991217\_10.0218.C6.o6.tw Method TBLASTX:Wheat  
 Start 2349 End 2702  
 GI none Score 307  
 Exons 2349..2546, 2352..2702

Seq. No. 21298 Seq. ID OJ991217\_10.0218.C6

Gene No.	44529	Strand	-
Start	12248	End	12674
Name	OJ991217_10.0218.C6.o7.tm	Method	TBLASTX:Maize
Start	2352	End	2690
GI	none	Score	248
Exons	2352..2690		

Seq. No.	21298	Seq. ID	OJ991217_10.0218.C6
Gene No.	44529	Strand	-
Start	12248	End	12674
Name	OJ991217_10.0218.C6.o10.tw	Method	TBLASTX:Wheat
Start	3036	End	3389
GI	none	Score	223
Exons	3036..3389		

Seq. No.	21298	Seq. ID	OJ991217_10.0218.C6
Gene No.	44529	Strand	-
Start	12248	End	12674
Name	OJ991217_10.0218.C6.o9.tm	Method	TBLASTX:Maize
Start	3393	End	3584
GI	none	Score	188
Exons	3393..3584, 3431..3538		

Seq. No.	21298	Seq. ID	OJ991217_10.0218.C6
Gene No.	44529	Strand	-
Start	12248	End	12674
Name	OJ991217_10.0218.C6.o4.tw	Method	TBLASTX:Wheat
Start	3521	End	4004
GI	none	Score	536
Exons	3521..3961, 3522..4004, 3546..4001		

Seq. No.	21298	Seq. ID	OJ991217_10.0218.C6
Gene No.	44529	Strand	-
Start	12248	End	12674
Name	OJ991217_10.0218.C6.o5.ts	Method	TBLASTX:Soybean
Start	3558	End	3872
GI	none	Score	199
Exons	3558..3872		

Seq. No.	21298	Seq. ID	OJ991217_10.0218.C6
Gene No.	44529	Strand	-
Start	12248	End	12674
Name	OJ991217_10.0218.C6.o4.tm	Method	TBLASTX:Maize
Start	3587	End	4058
GI	none	Score	397
Exons	3587..4024, 3591..4058		

Seq. No.	21298	Seq. ID	OJ991217_10.0218.C6
Gene No.	44529	Strand	-
Start	12248	End	12674
Name	OJ991217_10.0218.C6.o1.ts	Method	TBLASTX:Soybean
Start	3945	End	4340
GI	none	Score	57
Exons	3945..3977, 3945..3977, 3981..4340, 3983..4024, 4097..4330		

Seq. No.	21298	Seq. ID	OJ991217_10.0218.C6
Gene No.	44529	Strand	-

Start 12248  
 Name OJ991217\_10.0218.C6.o5.tw  
 Start 4053  
 GI none  
 Exons 4053..4355, 4094..4354

End 12674  
 Method TBLASTX:Wheat  
 End 4355  
 Score 418

Seq. No. 21298  
 Gene No. 44529  
 Start 12248  
 Name OJ991217\_10.0218.C6.o5.tm  
 Start 4074  
 GI none  
 Exons 4074..4421, 4142..4420

Seq. ID OJ991217\_10.0218.C6  
 Strand -  
 End 12674  
 Method TBLASTX:Maize  
 End 4421  
 Score 326

Seq. No. 21298  
 Gene No. 44529  
 Start 12248  
 Name OJ991217\_10.0218.C6.o3.tw  
 Start 4356  
 GI none  
 Exons 4356..4781, 4358..4774, 4431..4778

Seq. ID OJ991217\_10.0218.C6  
 Strand -  
 End 12674  
 Method TBLASTX:Wheat  
 End 4781  
 Score 595

Seq. No. 21298  
 Gene No. 44529  
 Start 12248  
 Name OJ991217\_10.0218.C6.o4.ts  
 Start 4362  
 GI none  
 Exons 4362..4610

Seq. ID OJ991217\_10.0218.C6  
 Strand -  
 End 12674  
 Method TBLASTX:Soybean  
 End 4610  
 Score 206

Seq. No. 21298  
 Gene No. 44529  
 Start 12248  
 Name OJ991217\_10.0218.C6.o2.tm  
 Start 4428  
 GI none  
 Exons 4428..4784, 4433..4783

Seq. ID OJ991217\_10.0218.C6  
 Strand -  
 End 12674  
 Method TBLASTX:Maize  
 End 4784  
 Score 466

Seq. No. 21298  
 Gene No. 44529  
 Start 12248  
 Name OJ991217\_10.0218.C6.o2.tw  
 Start 4787  
 GI none  
 Exons 4787..5326, 4969..5322

Seq. ID OJ991217\_10.0218.C6  
 Strand -  
 End 12674  
 Method TBLASTX:Wheat  
 End 5326  
 Score 625

Seq. No. 21298  
 Gene No. 44529  
 Start 12248  
 Name OJ991217\_10.0218.C6.o2.tc  
 Start 5024  
 GI none  
 Exons 5024..5206, 5207..5350, 5209..5349

Seq. ID OJ991217\_10.0218.C6  
 Strand -  
 End 12674  
 Method TBLASTX:Cress  
 End 5350  
 Score 89

Seq. No. 21298  
 Gene No. 44529  
 Start 12248

Seq. ID OJ991217\_10.0218.C6  
 Strand -  
 End 12674

Name OJ991217\_10.0218.C6.o3.ts  
 Start 5114  
 GI none  
 Exons 5114..5374, 5125..5373

Method TBLASTX:Soybean  
 End 5374  
 Score 302

Seq. No. 21298  
 Gene No. 44529  
 Start 12248  
 Name OJ991217\_10.0218.C6.o3.tm  
 Start 5172  
 GI none  
 Exons 5172..5276, 5172..5459, 5173..5460, 5174..5464

Seq. ID OJ991217\_10.0218.C6  
 Strand -  
 End 12674  
 Method TBLASTX:Maize  
 End 5464  
 Score 87

Seq. No. 21298  
 Gene No. 44529  
 Start 12248  
 Name OJ991217\_10.0218.C6.o1.tw  
 Start 5333  
 GI none  
 Exons 5333..5959, 5335..5844, 5504..5917

Seq. ID OJ991217\_10.0218.C6  
 Strand -  
 End 12674  
 Method TBLASTX:Wheat  
 End 5959  
 Score 718

Seq. No. 21298  
 Gene No. 44529  
 Start 12248  
 Name OJ991217\_10.0218.C6.o1.tm  
 Start 5512  
 GI none  
 Exons 5512..5667, 5513..5674, 5671..5832, 5672..6034, 5890..6030, 6033..6095

Seq. ID OJ991217\_10.0218.C6  
 Strand -  
 End 12674  
 Method TBLASTX:Maize  
 End 6095  
 Score 229

Seq. No. 21298  
 Gene No. 44529  
 Start 12248  
 Name OJ991217\_10.0218.C6.o7.tw  
 Start 5959  
 GI none  
 Exons 5959..6030, 5960..6031, 6033..6290, 6053..6238

Seq. ID OJ991217\_10.0218.C6  
 Strand -  
 End 12674  
 Method TBLASTX:Wheat  
 End 6290  
 Score 99

Seq. No. 21298  
 Gene No. 44529  
 Start 12248  
 Name OJ991217\_10.0218.C6.o8.tw  
 Start 9566  
 GI none  
 Exons 9566..9664, 9668..9958

Seq. ID OJ991217\_10.0218.C6  
 Strand -  
 End 12674  
 Method TBLASTX:Wheat  
 End 9958  
 Score 66

Seq. No. 21298  
 Gene No. 44529  
 Start 12248  
 Name OJ991217\_10.0218.C6.o8.tm  
 Start 9569  
 GI none  
 Exons 9569..9790

Seq. ID OJ991217\_10.0218.C6  
 Strand -  
 End 12674  
 Method TBLASTX:Maize  
 End 9790  
 Score 231

Seq. No. 21298  
 Gene No. 44529  
 Start 12248

Seq. ID OJ991217\_10.0218.C6  
 Strand -  
 End 12674

Name OJ991217\_10.0218.C6.o1.tc  
 Start 9785  
 GI none  
 Exons 9785..10105, 9812..10006

Method TBLASTX:Cress  
 End 10105  
 Score 231

Seq. No. 21298  
 Gene No. 44529  
 Start 12248  
 Name OJ991217\_10.0218.C6.o6.tm  
 Start 9791  
 GI none  
 Exons 9791..10174, 9794..10153

Seq. ID OJ991217\_10.0218.C6  
 Strand -  
 End 12674  
 Method TBLASTX:Maize  
 End 10174  
 Score 278

Seq. No. 21298  
 Gene No. 44529  
 Start 12248  
 Name OJ991217\_10.0218.C6.o2.ts  
 Start 9851  
 GI none  
 Exons 9851..10393, 9851..10186

Seq. ID OJ991217\_10.0218.C6  
 Strand -  
 End 12674  
 Method TBLASTX:Soybean  
 End 10393  
 Score 392

Seq. No. 21298  
 Gene No. 44529  
 Start 12248  
 Name OJ991217\_10.0218.C6.o9.tw  
 Start 10025  
 GI none  
 Exons 10025..10456, 10261..10455

Seq. ID OJ991217\_10.0218.C6  
 Strand -  
 End 12674  
 Method TBLASTX:Wheat  
 End 10456  
 Score 244

Seq. No. 21298  
 Gene No. 44529  
 Start 12248  
 Name OJ991217\_10.0218.C6.o2.gp  
 Start 12248  
 GI 4878407  
 Exons 12248..12674  
 GI Descrip. 6069643/dbj|AP000616.1|AP000616 1.0e-152 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12

Seq. ID OJ991217\_10.0218.C6  
 Strand -  
 End 12674  
 Method AAT/GAP  
 End 12674  
 Score 688

Seq. No. 21299  
 Gene No. 44530  
 Start 1  
 Name OJ991217\_10.0218.C7.o1.np  
 Start 1  
 GI 6539580  
 Exons 1..114, 198..281, 394..565, 655..1004, 1441..1553, 1690..1935  
 GI Descrip. (AP000837) hypothetical protein [Oryza sativa]

Seq. ID OJ991217\_10.0218.C7  
 Strand -  
 End 2667  
 Method AAT/NAP  
 End 1935  
 Score 641

Seq. No. 21299  
 Gene No. 44530  
 Start 1  
 Name OJ991217\_10.0218.C7.o1.gs  
 Start 651  
 GI none  
 Exons 651..1004, 1458..1553, 1783..1908, 2424..2522, 2614..2667

Seq. ID OJ991217\_10.0218.C7  
 Strand -  
 End 2667  
 Method GENSCAN  
 End 2667  
 Score .68

Seq. No. 21300 Seq. ID OJ991217\_10.0218.C8

Gene No. 44531 Strand -  
 Start 1 End 932  
 Name OJ991217\_10.0218.C8.o1.np Method AAT/NAP  
 Start 1 End 932  
 GI 6539580 Score 797  
 Exons 1..142, 228..824, 910..932  
 GI Descrip. (AP000837) hypothetical protein [Oryza sativa]

Seq. No. 21301 Seq. ID OJ991217\_10.0218.C9  
 Gene No. 44532 Strand -  
 Start 1 End 676  
 Name OJ991217\_10.0218.C9.o1.np Method AAT/NAP  
 Start 1 End 676  
 GI 5902444 Score 775  
 Exons 1..676  
 GI Descrip. (AB030283) GAG-POL precursor [Oryza sativa]

Seq. No. 21301 Seq. ID OJ991217\_10.0218.C9  
 Gene No. 44532 Strand -  
 Start 1 End 676  
 Name OJ991217\_10.0218.C9.o1.gs Method GENSCAN  
 Start 246 End 628  
 GI none Score .55  
 Exons 246..504, 560..628

Seq. No. 21302 Seq. ID OJ991217\_10.0218.C10  
 Gene No. 44533 Strand -  
 Start 1 End 710  
 Name OJ991217\_10.0218.C10.o1.np Method AAT/NAP  
 Start 1 End 710  
 GI 4680183 Score 336  
 Exons 1..710  
 GI Descrip. (AF111709) gag-pol protein [Oryza sativa subsp. indica]

Seq. No. 21302 Seq. ID OJ991217\_10.0218.C10  
 Gene No. 44533 Strand -  
 Start 1 End 710  
 Name OJ991217\_10.0218.C10.o1.gs Method GENSCAN  
 Start 83 End 610  
 GI none Score .74  
 Exons 83..360, 422..610

Seq. No. 21303 Seq. ID OJ991027\_10.0202.C4  
 Gene No. 44534 Strand +  
 Start 1 End 2316  
 Name OJ991027\_10.0202.C4.o1.np Method AAT/NAP  
 Start 1 End 2316  
 GI 3461840 Score 16  
 Exons 1..47, 87..288, 364..410, 2285..2316  
 GI Descrip. (AC005315) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]

Seq. No. 21303 Seq. ID OJ991027\_10.0202.C4  
 Gene No. 44534 Strand +  
 Start 1 End 2316  
 Name OJ991027\_10.0202.C4.o2.tm Method TBLASTX:Maize  
 Start 179 End 399

GI	none	Score	141
Exons	179..301, 229..300, 318..398, 319..399		
Seq. No.	21303	Seq. ID	OJ991027_10.0202.C4
Gene No.	44534	Strand	+
Start	1	End	2316
Name	OJ991027_10.0202.C4.o1.gs	Method	GENSCAN
Start	268	End	1162
GI	none	Score	.78
Exons	268..397, 819..1162		
Seq. No.	21303	Seq. ID	OJ991027_10.0202.C4
Gene No.	44534	Strand	+
Start	1	End	2316
Name	OJ991027_10.0202.C4.o1.tm	Method	TBLASTX:Maize
Start	563	End	1135
GI	none	Score	.67
Exons	563..655, 685..819, 686..883, 977..1135		
Seq. No.	21304	Seq. ID	OJ991027_10.0202.C5
Gene No.	44535	Strand	+
Start	1798	End	2941
Name	OJ991027_10.0202.C5.o1.gs	Method	GENSCAN
Start	1798	End	2941
GI	none	Score	.81
Exons	1798..2009, 2675..2941		
Seq. No.	21304	Seq. ID	OJ991027_10.0202.C5
Gene No.	44536	Strand	-
Start	3934	End	5992
Name	OJ991027_10.0202.C5.o2.gs	Method	GENSCAN
Start	3934	End	5992
GI	none	Score	.84
Exons	3934..3969, 4381..4796, 4876..5992		
Seq. No.	21304	Seq. ID	OJ991027_10.0202.C5
Gene No.	44536	Strand	-
Start	3934	End	5992
Name	OJ991027_10.0202.C5.o1.tm	Method	TBLASTX:Maize
Start	5411	End	5872
GI	none	Score	.64
Exons	5411..5476, 5570..5668, 5586..5669, 5660..5773, 5840..5872		
Seq. No.	21305	Seq. ID	OJ991027_10.0202.C6
Gene No.	44537	Strand	+
Start	1736	End	2539
Name	OJ991027_10.0202.C6.o1.gs	Method	GENSCAN
Start	1736	End	2539
GI	none	Score	.46
Exons	1736..1885, 1934..1985, 2442..2539		
Seq. No.	21305	Seq. ID	OJ991027_10.0202.C6
Gene No.	44537	Strand	+
Start	1736	End	2539
Name	OJ991027_10.0202.C6.o1.np	Method	AAT/NAP
Start	1814	End	1985
GI	3924594	Score	.66

Exons 1814..1985  
 GI Descrip. (AF069442) putative ribonucleoprotein [Arabidopsis thaliana]  
 gi|4262139|gb|AAD14439| (AC005275) putative ribonucleoprotein  
 [Arabidopsis thaliana]

Seq. No. 21306 Seq. ID OJ991027\_10.0202.C7  
 Gene No. 44538 Strand +  
 Start 2131 End 2192  
 Name OJ991027\_10.0202.C7.o1.gp Method AAT/GAP  
 Start 2131 End 2192  
 GI 4715947 Score 69  
 Exons 2131..2192  
 GI Descrip. 2252840 3.0e-09 (AF013293) contains regions of similarity to  
 Haemophilus influenzae permease (SP:P38767) [Arabidopsis  
 thaliana] >gi\_6049882\_gb AAF02797.1 AF195115\_17 (AF195115)  
 contains regions of similarity to Haemophilus influenzae  
 permease (SP:P38767) [Arabidopsis thaliana]

Seq. No. 21306 Seq. ID OJ991027\_10.0202.C7  
 Gene No. 44539 Strand -  
 Start 15 End 1803  
 Name OJ991027\_10.0202.C7.o1.gs Method GENSCAN  
 Start 15 End 1803  
 GI none Score .54  
 Exons 15..140, 1441..1532, 1682..1803

Seq. No. 21307 Seq. ID OJ991027\_10.0202.C8  
 Gene No. 44540 Strand +  
 Start 1216 End 3434  
 Name OJ991027\_10.0202.C8.o1.gs Method GENSCAN  
 Start 1216 End 3434  
 GI none Score .57  
 Exons 1216..1363, 3291..3434

Seq. No. 21308 Seq. ID OJ991027\_10.0202.C11  
 Gene No. 44541 Strand -  
 Start 1 End 659  
 Name OJ991027\_10.0202.C11.o1.np Method AAT/NAP  
 Start 1 End 659  
 GI 3402758 Score 418  
 Exons 1..179, 269..506, 611..659  
 GI Descrip. (AL031187) serine/threonine kinase-like protein [Arabidopsis  
 thaliana]

Seq. No. 21308 Seq. ID OJ991027\_10.0202.C11  
 Gene No. 44541 Strand -  
 Start 1 End 659  
 Name OJ991027\_10.0202.C11.o1.ts Method TBLASTX:Soybean  
 Start 22 End 562  
 GI none Score 58  
 Exons 22..171, 28..171, 29..178, 78..179, 269..481, 271..507,  
 272..508, 289..531, 536..562

Seq. No. 21308 Seq. ID OJ991027\_10.0202.C11  
 Gene No. 44541 Strand -  
 Start 1 End 659  
 Name OJ991027\_10.0202.C11.o1.gs Method GENSCAN



Start 29  
GI none  
Exons 29..179, 269..506

End 506  
Score .94

Seq. No. 21308  
Gene No. 44541  
Start 1  
Name OJ991027\_10.0202.C11.o1.tw  
Start 29  
GI none  
Exons 29..178, 66..179, 271..438, 271..444, 272..442

Seq. ID OJ991027\_10.0202.C11  
Strand -  
End 659  
Method TBLASTX:Wheat  
End 444  
Score 111

Seq. No. 21308  
Gene No. 44541  
Start 1  
Name OJ991027\_10.0202.C11.o1.tm  
Start 29  
GI none  
Exons 29..178, 29..178, 30..179, 76..180, 93..179, 94..180, 266..508, 277..507

Seq. ID OJ991027\_10.0202.C11  
Strand -  
End 659  
Method TBLASTX:Maize  
End 508  
Score 83

Seq. No. 21308  
Gene No. 44541  
Start 1  
Name OJ991027\_10.0202.C11.o1.tc  
Start 50  
GI none  
Exons 50..175, 78..167, 271..507, 272..484, 332..508

Seq. ID OJ991027\_10.0202.C11  
Strand -  
End 659  
Method TBLASTX:Cress  
End 508  
Score 78

Seq. No. 21309  
Gene No. 44542  
Start 456  
Name OJ991027\_10.0202.C13.o1.gp  
Start 456  
GI LIB3431-028-P1-N1-A10  
Exons 456..890  
GI Descrip. '4680203/gb|AAD27566.1|AF114171\_7 3.0e-33 (AF114171) TNP2-like protein [Sorghum bicolor]'

Seq. ID OJ991027\_10.0202.C13  
Strand +  
End 890  
Method AAT/GAP  
End 890  
Score 669

Seq. No. 21309  
Gene No. 44543  
Start 509  
Name OJ991027\_10.0202.C13.o1.gs  
Start 509  
GI none  
Exons 509..1012

Seq. ID OJ991027\_10.0202.C13  
Strand -  
End 1038  
Method GENSCAN  
End 1012  
Score 1

Seq. No. 21309  
Gene No. 44543  
Start 509  
Name OJ991027\_10.0202.C13.o1.np  
Start 524  
GI 4680203  
Exons 524..1038  
GI Descrip. (AF114171) TNP2-like protein [Sorghum bicolor]

Seq. ID OJ991027\_10.0202.C13  
Strand -  
End 1038  
Method AAT/NAP  
End 1038  
Score 493

Seq. No. 21309 Seq. ID OJ991027\_10.0202.C13

Gene No.	44543	Strand	-
Start	509	End	1038
Name	OJ991027_10.0202.C13.o1.tw	Method	TBLASTX:Wheat
Start	584	End	1008
GI	none	Score	52
Exons	584..676, 585..650, 601..672, 665..745, 693..746, 750..830, 752..868, 759..899, 770..898, 846..941, 878..937, 943..1008, 944..988		

Seq. No.	21310	Seq. ID	OJ991027_10.0202.C15
Gene No.	44544	Strand	+
Start	2006	End	5936
Name	OJ991027_10.0202.C15.o1.gs	Method	GENSCAN
Start	2006	End	2457
GI	none	Score	.4
Exons	2006..2457		

Seq. No.	21310	Seq. ID	OJ991027_10.0202.C15
Gene No.	44544	Strand	+
Start	2006	End	5936
Name	OJ991027_10.0202.C15.o2.np	Method	AAT/NAP
Start	2074	End	5936
GI	6063554	Score	136
Exons	2074..2182, 3774..3891, 4174..4430, 4594..4649, 5801..5936		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	21310	Seq. ID	OJ991027_10.0202.C15
Gene No.	44544	Strand	+
Start	2006	End	5936
Name	OJ991027_10.0202.C15.o2.gp	Method	AAT/GAP
Start	3021	End	3111
GI	5867_1.R1084	Score	133
Exons	3021..3111		
GI Descrip.	'464986/sp P35132 UBC9 ARATH 5.0e-58 UBIQUITIN-CONJUGATING ENZYME E2-17 KD 9 (UBIQUITIN-PROTEIN LIGASE 9) (UBIQUITIN CARRIER PROTEIN 9) (UBCAT4B) >gi_421857_pir_S32674 ubiquitin--protein ligase (EC 6.3.2.19) UBC9 - Arabidopsis thaliana >gi_297884_emb_CAA78714_ (Z14990) ubiquitin conjugating enzyme homolog [Arabidopsis thaliana] >gi_349211 (L00639) ubiquitin conjugating enzyme [Arabidopsis]		

Seq. No.	21310	Seq. ID	OJ991027_10.0202.C15
Gene No.	44545	Strand	-
Start	300	End	635
Name	OJ991027_10.0202.C15.o1.np	Method	AAT/NAP
Start	300	End	635
GI	2967837	Score	180
Exons	300..635		
GI Descrip.	(AF052641) cyst nematode resistance gene candidate [Triticum aestivum]		

Seq. No.	21310	Seq. ID	OJ991027_10.0202.C15
Gene No.	44546	Strand	-
Start	1024	End	1166
Name	OJ991027_10.0202.C15.o1.gp	Method	AAT/GAP

Start 1024 End 1166  
 GI LIB3477-003-P1-K1-E9 Score 158  
 Exons 1024..1166  
 GI Descrip. '2498586/sp|Q40638|MP01\_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY  
 S 1 PRECURSOR (ORY S I) >gi\_1173557 (U31771) Ory s 1 [Oryza  
 sativa]'

Seq. No. 21310 Seq. ID OJ991027\_10.0202.C15  
 Gene No. 44547 Strand -  
 Start 4045 End 4650  
 Name OJ991027\_10.0202.C15.o2.gs Method GENSCAN  
 Start 4045 End 4650  
 GI none Score .79  
 Exons 4045..4650

Seq. No. 21311 Seq. ID OJ991027\_10.0202.C16  
 Gene No. 44548 Strand +  
 Start 1 End 2930  
 Name OJ991027\_10.0202.C16.o1.np Method AAT/NAP  
 Start 1 End 242  
 GI 6063554 Score 140  
 Exons 1..242  
 GI Descrip. (AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464)  
 correspond to a region of the predicted gene.; hypothetical  
 protein [Oryza sativa]

Seq. No. 21311 Seq. ID OJ991027\_10.0202.C16  
 Gene No. 44548 Strand +  
 Start 1 End 2930  
 Name OJ991027\_10.0202.C16.o1.gs Method GENSCAN  
 Start 79 End 2930  
 GI none Score .56  
 Exons 79..147, 2540..2728, 2811..2930

Seq. No. 21311 Seq. ID OJ991027\_10.0202.C16  
 Gene No. 44549 Strand -  
 Start 1 End 4490  
 Name OJ991027\_10.0202.C16.o3.np Method AAT/NAP  
 Start 1 End 4490  
 GI 4680204 Score 899  
 Exons 1..57, 2397..2963, 3057..4490  
 GI Descrip. (AF114171) hypothetical protein [Sorghum bicolor]

Seq. No. 21311 Seq. ID OJ991027\_10.0202.C16  
 Gene No. 44549 Strand -  
 Start 1 End 4490  
 Name OJ991027\_10.0202.C16.o2.np Method AAT/NAP  
 Start 176 End 4490  
 GI 4680204 Score 899  
 Exons 176..216, 2537..2963, 3057..4490  
 GI Descrip. (AF114171) hypothetical protein [Sorghum bicolor]

Seq. No. 21311 Seq. ID OJ991027\_10.0202.C16  
 Gene No. 44549 Strand -  
 Start 1 End 4490  
 Name OJ991027\_10.0202.C16.o1.gp Method AAT/GAP  
 Start 630 End 889

GI 61605\_3.R1084 Score 370  
 Exons 630..889  
 GI Descrip. '1402920/emb|CAA66965| 2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'

Seq. No. 21311 Seq. ID OJ991027\_10.0202.C16  
 Gene No. 44549 Strand -  
 Start 1 End 4490  
 Name OJ991027\_10.0202.C16.o2.gs Method GENSCAN  
 Start 3318 End 4355  
 GI none Score .89  
 Exons 3318..4355

Seq. No. 21311 Seq. ID OJ991027\_10.0202.C16  
 Gene No. 44550 Strand -  
 Start 5298 End 5961  
 Name OJ991027\_10.0202.C16.o1.tw Method TBLASTX:Wheat  
 Start 3447 End 3848  
 GI none Score 46  
 Exons 3447..3557, 3447..3617, 3457..3618, 3607..3741, 3612..3848, 3621..3788

Seq. No. 21311 Seq. ID OJ991027\_10.0202.C16  
 Gene No. 44550 Strand -  
 Start 5298 End 5961  
 Name OJ991027\_10.0202.C16.o3.gs Method GENSCAN  
 Start 5298 End 5961  
 GI none Score .92  
 Exons 5298..5770, 5847..5961

Seq. No. 21312 Seq. ID OJ991027\_10.0202.C17  
 Gene No. 44551 Strand -  
 Start 1 End 3179  
 Name OJ991027\_10.0202.C17.o1.np Method AAT/NAP  
 Start 1 End 3179  
 GI 4680203 Score 3063  
 Exons 1..848, 1125..1355, 1509..3179  
 GI Descrip. (AF114171) TNP2-like protein [Sorghum bicolor]

Seq. No. 21312 Seq. ID OJ991027\_10.0202.C17  
 Gene No. 44551 Strand -  
 Start 1 End 3179  
 Name OJ991027\_10.0202.C17.o1.tw Method TBLASTX:Wheat  
 Start 6 End 1247  
 GI none Score 64  
 Exons 6..86, 34..87, 91..171, 93..209, 100..240, 111..239, 187..282, 219..278, 284..349, 285..329, 324..1241, 340..1242, 1062..1247

Seq. No. 21312 Seq. ID OJ991027\_10.0202.C17  
 Gene No. 44551 Strand -  
 Start 1 End 3179  
 Name OJ991027\_10.0202.C17.o1.tc Method TBLASTX:Cress  
 Start 506 End 958  
 GI none Score 113  
 Exons 506..757, 507..656, 507..950, 511..954, 517..954, 776..958

Seq. No. 21312 Seq. ID OJ991027\_10.0202.C17

Gene No.	44551	Strand	-
Start	1	End	3179
Name	OJ991027_10.0202.C17.o1.tm	Method	TBLASTX:Maize
Start	885	End	1199
GI	none	Score	142
Exons	885..1199, 913..1188		
Seq. No.	21312	Seq. ID	OJ991027_10.0202.C17
Gene No.	44551	Strand	-
Start	1	End	3179
Name	OJ991027_10.0202.C17.o3.tw	Method	TBLASTX:Wheat
Start	1248	End	1653
GI	none	Score	64
Exons	1248..1328, 1249..1329, 1249..1335, 1361..1573, 1362..1580, 1362..1580, 1402..1584, 1590..1652, 1603..1653		
Seq. No.	21312	Seq. ID	OJ991027_10.0202.C17
Gene No.	44551	Strand	-
Start	1	End	3179
Name	OJ991027_10.0202.C17.o2.tw	Method	TBLASTX:Wheat
Start	1792	End	2258
GI	none	Score	49
Exons	1792..1863, 1797..1862, 1862..1903, 1869..1910, 1870..1920, 1871..1912, 1912..2019, 1913..1996, 1991..2092, 1997..2089, 1999..2094, 1999..2097, 2101..2190, 2105..2191, 2202..2258, 2206..2250		
Seq. No.	21312	Seq. ID	OJ991027_10.0202.C17
Gene No.	44551	Strand	-
Start	1	End	3179
Name	OJ991027_10.0202.C17.o2.tm	Method	TBLASTX:Maize
Start	2000	End	2387
GI	none	Score	88
Exons	2000..2203, 2002..2199, 2206..2259, 2211..2282, 2298..2387		
Seq. No.	21312	Seq. ID	OJ991027_10.0202.C17
Gene No.	44551	Strand	-
Start	1	End	3179
Name	OJ991027_10.0202.C17.o2.tc	Method	TBLASTX:Cress
Start	2047	End	2394
GI	none	Score	71
Exons	2047..2187, 2066..2185, 2217..2387, 2242..2394		
Seq. No.	21312	Seq. ID	OJ991027_10.0202.C17
Gene No.	44551	Strand	-
Start	1	End	3179
Name	OJ991027_10.0202.C17.o1.ts	Method	TBLASTX:Soybean
Start	2128	End	2556
GI	none	Score	48
Exons	2128..2196, 2146..2202, 2202..2423, 2215..2391, 2418..2480, 2473..2556, 2481..2555		
Seq. No.	21312	Seq. ID	OJ991027_10.0202.C17
Gene No.	44551	Strand	-
Start	1	End	3179
Name	OJ991027_10.0202.C17.o4.tw	Method	TBLASTX:Wheat
Start	2472	End	2822

GI none Score 155  
Exons 2472..2729, 2477..2719, 2485..2727, 2487..2738, 2488..2730, 2736..2822

Seq. No. 21313 Seq. ID OJ991027\_10.0202.C18  
Gene No. 44552 Strand +  
Start 613 End 4971  
Name OJ991027\_10.0202.C18.o1.gs Method GENSCAN  
Start 613 End 3550  
GI none Score .87  
Exons 613..692, 2318..2455, 2930..3053, 3239..3314, 3469..3550

Seq. No. 21313 Seq. ID OJ991027\_10.0202.C18  
Gene No. 44552 Strand +  
Start 613 End 4971  
Name OJ991027\_10.0202.C18.o1.np Method AAT/NAP  
Start 2236 End 4971  
GI 5295955 Score 655  
Exons 2236..2387, 2930..3044, 3726..3840, 3929..4209, 4289..4352, 4392..4971

GI Descrip. (AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]

Seq. No. 21313 Seq. ID OJ991027\_10.0202.C18  
Gene No. 44553 Strand +  
Start 8889 End 11309  
Name OJ991027\_10.0202.C18.o3.gs Method GENSCAN  
Start 8889 End 11309  
GI none Score .62  
Exons 8889..8991, 9061..9327, 10301..10417, 10668..10751, 11263..11309

Seq. No. 21313 Seq. ID OJ991027\_10.0202.C18  
Gene No. 44554 Strand -  
Start 3742 End 7045  
Name OJ991027\_10.0202.C18.o2.gs Method GENSCAN  
Start 3742 End 7045  
GI none Score .84  
Exons 3742..4178, 4306..4419, 5326..5534, 6412..6899, 6995..7045

Seq. No. 21313 Seq. ID OJ991027\_10.0202.C18  
Gene No. 44555 Strand -  
Start 10483 End 15129  
Name OJ991027\_10.0202.C18.o2.np Method AAT/NAP  
Start 10483 End 15129  
GI 6063554 Score 225  
Exons 10483..10655, 12093..12324, 12442..12757, 15087..15129  
GI Descrip. (AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No. 21313 Seq. ID OJ991027\_10.0202.C18  
Gene No. 44555 Strand -  
Start 10483 End 15129  
Name OJ991027\_10.0202.C18.o2.gp Method AAT/GAP  
Start 10723 End 11098  
GI 2427387 Score 623  
Exons 10723..11098

GI Descrip. 5852170/emb|AL117265.1|OST17804 3.0e-94 *Oryza sativa*  
indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804

Seq. No.	21314	Seq. ID	OJ991027_10.0202.C19
Gene No.	44556	Strand	+
Start	1	End	1985
Name	OJ991027_10.0202.C19.o1.np	Method	AAT/NAP
Start	1	End	1985
GI	6498441	Score	125
Exons	1..254, 1958..1985		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to <i>Sorghum bicolor</i> Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [ <i>Oryza sativa</i> ]		

Seq. No.	21314	Seq. ID	OJ991027_10.0202.C19
Gene No.	44556	Strand	+
Start	1	End	1985
Name	OJ991027_10.0202.C19.o1.gs	Method	GENSCAN
Start	42	End	266
GI	none	Score	.64
Exons	42..266		

Seq. No.	21314	Seq. ID	OJ991027_10.0202.C19
Gene No.	44556	Strand	+
Start	1	End	1985
Name	OJ991027_10.0202.C19.o2.gs	Method	GENSCAN
Start	840	End	1857
GI	none	Score	.88
Exons	840..1213, 1306..1478, 1772..1857		

Seq. No.	21314	Seq. ID	OJ991027_10.0202.C19
Gene No.	44557	Strand	-
Start	909	End	1342
Name	OJ991027_10.0202.C19.o2.np	Method	AAT/NAP
Start	909	End	1342
GI	4680185	Score	510
Exons	909..1342		
GI Descrip.	(AF111709) unknown [ <i>Oryza sativa</i> subsp. indica]		

Seq. No.	21315	Seq. ID	OJ991027_10.0202.C20
Gene No.	44558	Strand	-
Start	7315	End	11807
Name	OJ991027_10.0202.C20.o1.np	Method	AAT/NAP
Start	7315	End	11807
GI	6069646	Score	2640
Exons	7315..8299, 8581..9396, 11786..11807		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [ <i>Oryza sativa</i> ] gi 6907112 dbj BAA90639.1  (AP001129) Similar to <i>Arabidopsis thaliana</i> chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [ <i>Oryza sativa</i> ]		

Seq. No.	21315	Seq. ID	OJ991027_10.0202.C20
Gene No.	44558	Strand	-
Start	7315	End	11807
Name	OJ991027_10.0202.C20.o3.tm	Method	TBLASTX:Maize
Start	7330	End	7891

GI	none	Score	89
Exons	7330..7554, 7555..7890, 7574..7891		
Seq. No.	21315	Seq. ID	OJ991027_10.0202.C20
Gene No.	44558	Strand	-
Start	7315	End	11807
Name	OJ991027_10.0202.C20.o1.tw	Method	TBLASTX:Wheat
Start	7441	End	7794
GI	none	Score	73
Exons	7441..7476, 7597..7794, 7601..7765		
Seq. No.	21315	Seq. ID	OJ991027_10.0202.C20
Gene No.	44558	Strand	-
Start	7315	End	11807
Name	OJ991027_10.0202.C20.o6.tm	Method	TBLASTX:Maize
Start	7891	End	8136
GI	none	Score	65
Exons	7891..8136, 7892..8134		
Seq. No.	21315	Seq. ID	OJ991027_10.0202.C20
Gene No.	44558	Strand	-
Start	7315	End	11807
Name	OJ991027_10.0202.C20.o2.tw	Method	TBLASTX:Wheat
Start	8278	End	8672
GI	none	Score	126
Exons	8278..8406, 8416..8514, 8511..8672		
Seq. No.	21315	Seq. ID	OJ991027_10.0202.C20
Gene No.	44558	Strand	-
Start	7315	End	11807
Name	OJ991027_10.0202.C20.o1.tm	Method	TBLASTX:Maize
Start	8357	End	9061
GI	none	Score	93
Exons	8357..8518, 8359..8517, 8502..8672, 8639..9061, 8666..9052, 8893..9057		
Seq. No.	21315	Seq. ID	OJ991027_10.0202.C20
Gene No.	44558	Strand	-
Start	7315	End	11807
Name	OJ991027_10.0202.C20.o3.tw	Method	TBLASTX:Wheat
Start	8858	End	9127
GI	none	Score	60
Exons	8858..9127, 8859..8954		
Seq. No.	21315	Seq. ID	OJ991027_10.0202.C20
Gene No.	44558	Strand	-
Start	7315	End	11807
Name	OJ991027_10.0202.C20.o2.tm	Method	TBLASTX:Maize
Start	9065	End	9550
GI	none	Score	50
Exons	9065..9148, 9072..9131, 9143..9385, 9159..9386, 9410..9550, 9426..9536		
Seq. No.	21315	Seq. ID	OJ991027_10.0202.C20
Gene No.	44558	Strand	-
Start	7315	End	11807
Name	OJ991027_10.0202.C20.o2.np	Method	AAT/NAP



Start	9224	End	9628
GI	804809	Score	128
Exons	9224..9628		
GI Descrip.	(M13100) unknown protein [Rattus norvegicus]		

Seq. No.	21315	Seq. ID	OJ991027_10.0202.C20
Gene No.	44558	Strand	-
Start	7315	End	11807
Name	OJ991027_10.0202.C20.o4.tm	Method	TBLASTX:Maize
Start	9554	End	10027
GI	none	Score	88
Exons	9554..9910, 9908..10027		

Seq. No.	21315	Seq. ID	OJ991027_10.0202.C20
Gene No.	44558	Strand	-
Start	7315	End	11807
Name	OJ991027_10.0202.C20.o5.tm	Method	TBLASTX:Maize
Start	10194	End	10475
GI	none	Score	167
Exons	10194..10310, 10314..10475		

Seq. No.	21316	Seq. ID	OJ991027_10.0202.C21
Gene No.	44559	Strand	+
Start	1	End	3465
Name	OJ991027_10.0202.C21.o1.np	Method	AAT/NAP
Start	1	End	3460
GI	4966374	Score	2360
Exons	1..30, 489..1096, 1172..3460		
GI Descrip.	(AC006341) >F309.28 [Arabidopsis thaliana]		

Seq. No.	21316	Seq. ID	OJ991027_10.0202.C21
Gene No.	44559	Strand	+
Start	1	End	3465
Name	OJ991027_10.0202.C21.o1.gs	Method	GENSCAN
Start	261	End	3310
GI	none	Score	.68
Exons	261..3310		

Seq. No.	21316	Seq. ID	OJ991027_10.0202.C21
Gene No.	44559	Strand	+
Start	1	End	3465
Name	OJ991027_10.0202.C21.o2.tc	Method	TBLASTX:Cress
Start	680	End	2872
GI	none	Score	84
Exons	680..859, 986..1159, 997..1152, 1289..1462, 1592..1813, 1895..2056, 2201..2347, 2548..2850, 2549..2872		

Seq. No.	21316	Seq. ID	OJ991027_10.0202.C21
Gene No.	44559	Strand	+
Start	1	End	3465
Name	OJ991027_10.0202.C21.o1.tw	Method	TBLASTX:Wheat
Start	686	End	2761
GI	none	Score	69
Exons	686..847, 881..1159, 925..1083, 1379..1795, 1685..2056, 1979..2056, 2096..2326, 2399..2761, 2560..2703, 2596..2706		

Seq. No.	21316	Seq. ID	OJ991027_10.0202.C21
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Gene No.	44559	Strand	+
Start	1	End	3465
Name	OJ991027_10.0202.C21.o3.ts	Method	TBLASTX:Soybean
Start	881	End	2689
GI	none	Score	81
Exons	881..1045, 958..1044, 971..1348, 1246..1350, 1274..1651, 1576..1701, 1577..1954, 1728..1853, 1874..1963, 2096..2260, 2180..2308, 2483..2689		

Seq. No.	21316	Seq. ID	OJ991027_10.0202.C21
Gene No.	44559	Strand	+
Start	1	End	3465
Name	OJ991027_10.0202.C21.o1.tm	Method	TBLASTX:Maize
Start	1106	End	3196
GI	none	Score	138
Exons	1106..1438, 1142..1519, 1216..1470, 1235..1360, 1400..1660, 1418..1795, 1424..1759, 1631..2023, 1727..2056, 1727..2083, 2024..2050, 2093..2347, 2096..2332, 2096..2347, 2234..2515, 2399..2497, 2399..2656, 2549..3196, 2549..2704, 2549..2632, 2560..2844		

Seq. No.	21316	Seq. ID	OJ991027_10.0202.C21
Gene No.	44559	Strand	+
Start	1	End	3465
Name	OJ991027_10.0202.C21.o1.ts	Method	TBLASTX:Soybean
Start	2702	End	3241
GI	none	Score	411
Exons	2702..3241, 2758..3111		

Seq. No.	21316	Seq. ID	OJ991027_10.0202.C21
Gene No.	44559	Strand	+
Start	1	End	3465
Name	OJ991027_10.0202.C21.o1.tc	Method	TBLASTX:Cress
Start	2930	End	3465
GI	none	Score	411
Exons	2930..3463, 3131..3463, 3172..3465		

Seq. No.	21316	Seq. ID	OJ991027_10.0202.C21
Gene No.	44559	Strand	+
Start	1	End	3465
Name	OJ991027_10.0202.C21.o2.tm	Method	TBLASTX:Maize
Start	3197	End	3463
GI	none	Score	308
Exons	3197..3463, 3256..3462		

Seq. No.	21316	Seq. ID	OJ991027_10.0202.C21
Gene No.	44559	Strand	+
Start	1	End	3465
Name	OJ991027_10.0202.C21.o2.ts	Method	TBLASTX:Soybean
Start	3245	End	3463
GI	none	Score	251
Exons	3245..3463, 3256..3462		

Seq. No.	21317	Seq. ID	OJ991027_10.0202.C22
Gene No.	44560	Strand	-
Start	2608	End	3205
Name	OJ991027_10.0202.C22.o2.gs	Method	GENSCAN

Start 2608  
GI none  
Exons 2608..3139

End 3139  
Score .98

Seq. No. 21317 Seq. ID OJ991027\_10.0202.C22  
Gene No. 44560 Strand -  
Start 2608 End 3205  
Name OJ991027\_10.0202.C22.o1.ts Method TBLASTX:Soybean  
Start 2628 End 3205  
GI none Score 70  
Exons 2628..2711, 2659..3027, 2660..2773, 2867..3025, 3022..3102,  
3106..3204, 3107..3205

Seq. No. 21317 Seq. ID OJ991027\_10.0202.C22  
Gene No. 44560 Strand -  
Start 2608 End 3205  
Name OJ991027\_10.0202.C22.o1.tc Method TBLASTX:Cress  
Start 2641 End 3075  
GI none Score 80  
Exons 2641..3027, 2824..2979, 2867..3025, 3022..3075

Seq. No. 21317 Seq. ID OJ991027\_10.0202.C22  
Gene No. 44560 Strand -  
Start 2608 End 3205  
Name OJ991027\_10.0202.C22.o1.tm Method TBLASTX:Maize  
Start 2646 End 3028  
GI none Score 101  
Exons 2646..2756, 2651..2770, 2656..3027, 2818..3018, 2867..3028

Seq. No. 21317 Seq. ID OJ991027\_10.0202.C22  
Gene No. 44560 Strand -  
Start 2608 End 3205  
Name OJ991027\_10.0202.C22.o1.np Method AAT/NAP  
Start 2656 End 3205  
GI 6692682 Score 496  
Exons 2656..3205  
GI Descrip. (AC007592) F12K11.15 [Arabidopsis thaliana]

Seq. No. 21318 Seq. ID OJ991027\_10.0202.C23  
Gene No. 44561 Strand -  
Start 1 End 2096  
Name OJ991027\_10.0202.C23.o1.np Method AAT/NAP  
Start 1 End 2066  
GI 4558564 Score 396  
Exons 1..37, 1406..2066  
GI Descrip. (AC007138) predicted protein of unknown function [Arabidopsis thaliana]

Seq. No. 21318 Seq. ID OJ991027\_10.0202.C23  
Gene No. 44561 Strand -  
Start 1 End 2096  
Name OJ991027\_10.0202.C23.o1.gs Method GENSCAN  
Start 1131 End 2096  
GI none Score .7  
Exons 1131..1190, 1392..2096

Seq. No. 21318 Seq. ID OJ991027\_10.0202.C23

Gene No.	44561	Strand	-
Start	1	End	2096
Name	OJ991027_10.0202.C23.o1.tm	Method	TBLASTX:Maize
Start	1391	End	1737
GI	none	Score	43
Exons	1391..1429, 1392..1445, 1515..1658, 1529..1606, 1531..1644, 1635..1736, 1659..1727, 1693..1737		

Seq. No.	21318	Seq. ID	OJ991027_10.0202.C23
Gene No.	44561	Strand	-
Start	1	End	2096
Name	OJ991027_10.0202.C23.o1.ts	Method	TBLASTX:Soybean
Start	1578	End	1926
GI	none	Score	183
Exons	1578..1796, 1579..1926, 1636..1890, 1845..1925		

Seq. No.	21319	Seq. ID	OJ991027_10.0202.C27
Gene No.	44562	Strand	-
Start	1124	End	1182
Name	OJ991027_10.0202.C27.o1.gs	Method	GENSCAN
Start	1124	End	1182
GI	none	Score	.74
Exons	1124..1182		

Seq. No.	21320	Seq. ID	OJ991027_10.0202.C28
Gene No.	44563	Strand	+
Start	3892	End	5298
Name	OJ991027_10.0202.C28.o2.np	Method	AAT/NAP
Start	3892	End	5298
GI	6907088	Score	650
Exons	3892..4029, 4205..4391, 4866..5298		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	21320	Seq. ID	OJ991027_10.0202.C28
Gene No.	44564	Strand	-
Start	63	End	2168
Name	OJ991027_10.0202.C28.o1.gs	Method	GENSCAN
Start	63	End	2168
GI	none	Score	.81
Exons	63..2168		

Seq. No.	21320	Seq. ID	OJ991027_10.0202.C28
Gene No.	44565	Strand	-
Start	3393	End	3960
Name	OJ991027_10.0202.C28.o2.gs	Method	GENSCAN
Start	3393	End	3960
GI	none	Score	.81
Exons	3393..3439, 3906..3960		

Seq. No.	21320	Seq. ID	OJ991027_10.0202.C28
Gene No.	44566	Strand	-
Start	4559	End	5141
Name	OJ991027_10.0202.C28.o3.gs	Method	GENSCAN
Start	4559	End	5141
GI	none	Score	.89
Exons	4559..4653, 5087..5141		

Seq. No.	21321	Seq. ID	OJ991027_10.0202.C29
Gene No.	44567	Strand	+
Start	1	End	2334
Name	OJ991027_10.0202.C29.o1.np	Method	AAT/NAP
Start	1	End	783
GI	5734635	Score	322
Exons	1..783		
GI Descrip.	(AP000391) hypothetical protein [Oryza sativa]		

Seq. No.	21321	Seq. ID	OJ991027_10.0202.C29
Gene No.	44567	Strand	+
Start	1	End	2334
Name	OJ991027_10.0202.C29.o1.gs	Method	GENSCAN
Start	471	End	2334
GI	none	Score	.47
Exons	471..563, 1252..1320, 2241..2334		

Seq. No.	21322	Seq. ID	OJ991027_10.0202.C30
Gene No.	44568	Strand	+
Start	851	End	943
Name	OJ991027_10.0202.C30.o1.gs	Method	GENSCAN
Start	851	End	943
GI	none	Score	.87
Exons	851..943		

Seq. No.	21322	Seq. ID	OJ991027_10.0202.C30
Gene No.	44569	Strand	-
Start	2009	End	4427
Name	OJ991027_10.0202.C30.o1.np	Method	AAT/NAP
Start	2009	End	4427
GI	5764395	Score	433
Exons	2009..2034, 3404..4427		
GI Descrip.	(AF159587) far-red impaired response protein [Arabidopsis thaliana]		

Seq. No.	21322	Seq. ID	OJ991027_10.0202.C30
Gene No.	44569	Strand	-
Start	2009	End	4427
Name	OJ991027_10.0202.C30.o2.tm	Method	TBLASTX:Maize
Start	3667	End	4026
GI	none	Score	67
Exons	3667..3786, 3668..3787, 3877..4026		

Seq. No.	21322	Seq. ID	OJ991027_10.0202.C30
Gene No.	44569	Strand	-
Start	2009	End	4427
Name	OJ991027_10.0202.C30.o1.ts	Method	TBLASTX:Soybean
Start	3680	End	3969
GI	none	Score	39
Exons	3680..3730, 3682..3726, 3733..3969, 3743..3928		

Seq. No.	21322	Seq. ID	OJ991027_10.0202.C30
Gene No.	44569	Strand	-
Start	2009	End	4427
Name	OJ991027_10.0202.C30.o1.tw	Method	TBLASTX:Wheat
Start	3751	End	4158
GI	none	Score	164

Exons 3751..3834, 3883..4158

Seq. No.	21322	Seq. ID	OJ991027_10.0202.C30
Gene No.	44569	Strand	-
Start	2009	End	4427
Name	OJ991027_10.0202.C30.o1.tm	Method	TBLASTX:Maize
Start	4030	End	4423
GI	none	Score	116
Exons	4030..4422, 4103..4273, 4307..4423		

Seq. No.	21322	Seq. ID	OJ991027_10.0202.C30
Gene No.	44569	Strand	-
Start	2009	End	4427
Name	OJ991027_10.0202.C30.o2.ts	Method	TBLASTX:Soybean
Start	4138	End	4392
GI	none	Score	74
Exons	4138..4278, 4139..4276, 4276..4392, 4289..4351		

Seq. No.	21323	Seq. ID	OJ991217_12.0204.C1
Gene No.	44570	Strand	-
Start	181	End	1859
Name	OJ991217_12.0204.C1.o1.np	Method	AAT/NAP
Start	162	End	1859
GI	6714431	Score	1084
Exons	162..1859		
GI Descrip.	(AC012328) putative cellulose synthase catalytic subunit [Arabidopsis thaliana]		

Seq. No.	21323	Seq. ID	OJ991217_12.0204.C1
Gene No.	44570	Strand	-
Start	181	End	1859
Name	OJ991217_12.0204.C1.o1.gs	Method	GENSCAN
Start	181	End	1758
GI	none	Score	.9
Exons	181..1758		

Seq. No.	21323	Seq. ID	OJ991217_12.0204.C1
Gene No.	44570	Strand	-
Start	181	End	1859
Name	OJ991217_12.0204.C1.o1.tc	Method	TBLASTX:Cress
Start	271	End	1729
GI	none	Score	72
Exons	271..336, 530..691, 547..699, 787..1182, 935..1150, 1279..1479, 1280..1471, 1501..1704, 1517..1729		

Seq. No.	21323	Seq. ID	OJ991217_12.0204.C1
Gene No.	44570	Strand	-
Start	181	End	1859
Name	OJ991217_12.0204.C1.o2.ts	Method	TBLASTX:Soybean
Start	271	End	1060
GI	none	Score	42
Exons	271..336, 547..699, 793..1059, 806..865, 935..1060		

Seq. No.	21323	Seq. ID	OJ991217_12.0204.C1
Gene No.	44570	Strand	-
Start	181	End	1859
Name	OJ991217_12.0204.C1.o1.tm	Method	TBLASTX:Maize



Start	2038	End	2346
GI	3767033	Score	526
Exons	2038..2346		
GI Descrip.	2326760/emb Y14434 MTTANAD2X 1.0e-53 Triticum aestivum mitochondrial nad2 gene exons 3, 4 and 5, and trnY gene		

Seq. No.	21324	Seq. ID	OJ991217_12.0204.C2
Gene No.	44572	Strand	-
Start	1	End	2026
Name	OJ991217_12.0204.C2.o1.np	Method	AAT/NAP
Start	1	End	2026
GI	2924781	Score	321
Exons	1..364, 404..479, 1949..2026		
GI Descrip.	(AC002334) putative cellulose synthase [Arabidopsis thaliana]		

Seq. No.	21324	Seq. ID	OJ991217_12.0204.C2
Gene No.	44572	Strand	-
Start	1	End	2026
Name	OJ991217_12.0204.C2.o1.tm	Method	TBLASTX:Maize
Start	1	End	361
GI	none	Score	135
Exons	1..228, 2..211, 238..360, 266..361		

Seq. No.	21324	Seq. ID	OJ991217_12.0204.C2
Gene No.	44572	Strand	-
Start	1	End	2026
Name	OJ991217_12.0204.C2.o1.tc	Method	TBLASTX:Cress
Start	1	End	360
GI	none	Score	97
Exons	1..228, 265..360		

Seq. No.	21324	Seq. ID	OJ991217_12.0204.C2
Gene No.	44572	Strand	-
Start	1	End	2026
Name	OJ991217_12.0204.C2.o1.ts	Method	TBLASTX:Soybean
Start	1	End	360
GI	none	Score	98
Exons	1..228, 265..360		

Seq. No.	21324	Seq. ID	OJ991217_12.0204.C2
Gene No.	44572	Strand	-
Start	1	End	2026
Name	OJ991217_12.0204.C2.o1.gs	Method	GENSCAN
Start	38	End	602
GI	none	Score	.65
Exons	38..472, 562..602		

Seq. No.	21325	Seq. ID	OJ991217_12.0204.C3
Gene No.	44573	Strand	+
Start	14313	End	18240
Name	OJ991217_12.0204.C3.o4.gs	Method	GENSCAN
Start	14313	End	18240
GI	none	Score	.42
Exons	14313..14385, 14513..14716, 16739..17071, 17109..17292, 17705..17884, 18180..18240		

Seq. No.	21325	Seq. ID	OJ991217_12.0204.C3
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Gene No. 44574  
 Start 370  
 Name OJ991217\_12.0204.C3.o1.gs  
 Start 370  
 GI none  
 Exons 370..548

Strand -  
 End 548  
 Method GENSCAN  
 End 548  
 Score .93

Seq. No. 21325  
 Gene No. 44575  
 Start 3008  
 Name OJ991217\_12.0204.C3.o1.gp  
 Start 2797  
 GI 2799714  
 Exons 2797..2905, 2996..3154

Seq. ID OJ991217\_12.0204.C3  
 Strand -  
 End 14402  
 Method AAT/GAP  
 End 3154  
 Score 351

Seq. No. 21325  
 Gene No. 44575  
 Start 3008  
 Name OJ991217\_12.0204.C3.o2.gs  
 Start 3008  
 GI none  
 Exons 3008..3232, 3316..3363, 3566..3598, 3708..3767, 4081..4143, 4221..4268, 4386..4451, 4729..4794, 4896..4961, 5211..5294, 5546..5890, 5974..6069, 6163..6255, 6365..6568, 6670..6962, 7069..7240, 10456..10704, 10861..11106, 11169..11271, 11350..11670, 11769..11961, 12183..12663

Seq. ID OJ991217\_12.0204.C3  
 Strand -  
 End 14402  
 Method GENSCAN  
 End 12663  
 Score .84

Seq. No. 21325  
 Gene No. 44575  
 Start 3008  
 Name OJ991217\_12.0204.C3.o2.gp  
 Start 7288  
 GI 3548947  
 Exons 7288..7334, 7654..8002

Seq. ID OJ991217\_12.0204.C3  
 Strand -  
 End 14402  
 Method AAT/GAP  
 End 8002  
 Score 658

Seq. No. 21325  
 Gene No. 44575  
 Start 3008  
 Name OJ991217\_12.0204.C3.o1.np  
 Start 10562  
 GI 5732031  
 Exons 10562..11081, 11156..11288

Seq. ID OJ991217\_12.0204.C3  
 Strand -  
 End 14402  
 Method AAT/NAP  
 End 11288  
 Score 279

GI Descrip. (AF147260) No definition line found [Arabidopsis thaliana]

Seq. No. 21325  
 Gene No. 44575  
 Start 3008  
 Name OJ991217\_12.0204.C3.o2.np  
 Start 11541  
 GI 5911167  
 Exons 11541..11670, 11769..13928, 14331..14402

Seq. ID OJ991217\_12.0204.C3  
 Strand -  
 End 14402  
 Method AAT/NAP  
 End 14402  
 Score 1545

GI Descrip. (AF136221) putative transposase protein [Zea mays]

Seq. No. 21325  
 Gene No. 44575  
 Start 3008  
 Name OJ991217\_12.0204.C3.o3.gs

Seq. ID OJ991217\_12.0204.C3  
 Strand -  
 End 14402  
 Method GENSCAN

Start 13482  
GI none  
Exons 13482..14003

End 14003  
Score .97

Seq. No. 21325  
Gene No. 44576  
Start 19793  
Name OJ991217\_12.0204.C3.o7.tm  
Start 3002  
GI none  
Exons 3002..3235, 3060..3233

Seq. ID OJ991217\_12.0204.C3  
Strand -  
End 23308  
Method TBLASTX:Maize  
End 3235  
Score 121

Seq. No. 21325  
Gene No. 44576  
Start 19793  
Name OJ991217\_12.0204.C3.o6.tm  
Start 5750  
GI none  
Exons 5750..5884, 5751..5882, 5761..5892, 5790..5891, 5965..6039, 5971..6039, 5986..6045

Seq. ID OJ991217\_12.0204.C3  
Strand -  
End 23308  
Method TBLASTX:Maize  
End 6045  
Score 120

Seq. No. 21325  
Gene No. 44576  
Start 19793  
Name OJ991217\_12.0204.C3.o1.tm  
Start 6383  
GI none  
Exons 6383..6577, 6383..6568, 6442..6570, 6664..6720, 6667..6705, 6700..6897, 6720..6902, 6725..6895, 6904..6945

Seq. ID OJ991217\_12.0204.C3  
Strand -  
End 23308  
Method TBLASTX:Maize  
End 6945  
Score 98

Seq. No. 21325  
Gene No. 44576  
Start 19793  
Name OJ991217\_12.0204.C3.o1.tw  
Start 10708  
GI none  
Exons 10708..10884, 11554..11673, 11556..11687, 11765..12118, 11799..11891, 11946..12065

Seq. ID OJ991217\_12.0204.C3  
Strand -  
End 23308  
Method TBLASTX:Wheat  
End 12118  
Score 66

Seq. No. 21325  
Gene No. 44576  
Start 19793  
Name OJ991217\_12.0204.C3.o5.tm  
Start 10822  
GI none  
Exons 10822..11106, 10829..10903, 10831..10959, 10833..11102, 10993..11109

Seq. ID OJ991217\_12.0204.C3  
Strand -  
End 23308  
Method TBLASTX:Maize  
End 11109  
Score 73

Seq. No. 21325  
Gene No. 44576  
Start 19793  
Name OJ991217\_12.0204.C3.o4.tm  
Start 11768  
GI none  
Exons 11768..11914, 11768..12121, 11769..12119, 12011..12121

Seq. ID OJ991217\_12.0204.C3  
Strand -  
End 23308  
Method TBLASTX:Maize  
End 12121  
Score 68

Seq. No. 21325 Seq. ID OJ991217\_12.0204.C3

Gene No.	44576	Strand	-
Start	19793	End	23308
Name	OJ991217_12.0204.C3.ol.ts	Method	TBLASTX:Soybean
Start	11780	End	12121
GI	none	Score	84
Exons	11780..12019, 11781..11900, 12029..12121		

Seq. No.	21325	Seq. ID	OJ991217_12.0204.C3
Gene No.	44576	Strand	-
Start	19793	End	23308
Name	OJ991217_12.0204.C3.o8.tm	Method	TBLASTX:Maize
Start	12256	End	12462
GI	none	Score	113
Exons	12256..12462, 12257..12388		

Seq. No.	21325	Seq. ID	OJ991217_12.0204.C3
Gene No.	44576	Strand	-
Start	19793	End	23308
Name	OJ991217_12.0204.C3.o2.tm	Method	TBLASTX:Maize
Start	12610	End	13047
GI	none	Score	105
Exons	12610..12789, 12612..12791, 12804..13037, 12811..13047		

Seq. No.	21325	Seq. ID	OJ991217_12.0204.C3
Gene No.	44576	Strand	-
Start	19793	End	23308
Name	OJ991217_12.0204.C3.o2.tw	Method	TBLASTX:Wheat
Start	12807	End	13094
GI	none	Score	144
Exons	12807..13094, 12814..13089		

Seq. No.	21325	Seq. ID	OJ991217_12.0204.C3
Gene No.	44576	Strand	-
Start	19793	End	23308
Name	OJ991217_12.0204.C3.o1.tc	Method	TBLASTX:Cress
Start	12882	End	13233
GI	none	Score	57
Exons	12882..13103, 12901..13041, 13125..13214, 13126..13233		

Seq. No.	21325	Seq. ID	OJ991217_12.0204.C3
Gene No.	44576	Strand	-
Start	19793	End	23308
Name	OJ991217_12.0204.C3.o5.gs	Method	GENSCAN
Start	19793	End	22966
GI	none	Score	.43
Exons	19793..19885, 20510..20596, 20830..20936, 21417..21706, 22734..22966		

Seq. No.	21325	Seq. ID	OJ991217_12.0204.C3
Gene No.	44576	Strand	-
Start	19793	End	23308
Name	OJ991217_12.0204.C3.o3.gp	Method	AAT/GAP
Start	20388	End	21464
GI	6547_2.R1084	Score	1093
Exons	20388..20611, 20853..21375, 21405..21464		
GI Descrip.	'5257255/dbj AP000364.1 AP000364 6.0e-30 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	21325	Seq. ID	OJ991217_12.0204.C3
Gene No.	44576	Strand	-
Start	19793	End	23308
Name	OJ991217_12.0204.C3.o3.np	Method	AAT/NAP
Start	20829	End	23308
GI	6907106	Score	418
Exons	20829..21016, 21090..21360, 21395..21672, 23194..23308		
GI Descrip.	(AP001129) EST AU068291(C12960) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	21325	Seq. ID	OJ991217_12.0204.C3
Gene No.	44576	Strand	-
Start	19793	End	23308
Name	OJ991217_12.0204.C3.o3.tm	Method	TBLASTX:Maize
Start	20928	End	21276
GI	none	Score	57
Exons	20928..20975, 20929..20973, 20948..21058, 21008..21058, 21047..21073, 21062..21103, 21063..21260, 21075..21275, 21076..21276		

Seq. No.	21326	Seq. ID	OJ991217_12.0204.C4
Gene No.	44577	Strand	-
Start	645	End	5340
Name	OJ991217_12.0204.C4.o1.np	Method	AAT/NAP
Start	311	End	5340
GI	5091513	Score	712
Exons	311..1318, 5321..5340		
GI Descrip.	(AB023482) Hypothetical protein [Oryza sativa]		

Seq. No.	21326	Seq. ID	OJ991217_12.0204.C4
Gene No.	44577	Strand	-
Start	645	End	5340
Name	OJ991217_12.0204.C4.o1.gs	Method	GENSCAN
Start	645	End	4323
GI	none	Score	.54
Exons	645..1446, 1769..1894, 2705..2771, 3294..3348, 4060..4323		

Seq. No.	21326	Seq. ID	OJ991217_12.0204.C4
Gene No.	44577	Strand	-
Start	645	End	5340
Name	OJ991217_12.0204.C4.o1.gp	Method	AAT/GAP
Start	3787	End	4330
GI	3548963	Score	958
Exons	3787..4330		

Seq. No.	21327	Seq. ID	OJ991217_12.0204.C5
Gene No.	44578	Strand	+
Start	278	End	496
Name	OJ991217_12.0204.C5.o1.gs	Method	GENSCAN
Start	278	End	496
GI	none	Score	.66
Exons	278..355, 408..496		

Seq. No.	21327	Seq. ID	OJ991217_12.0204.C5
Gene No.	44579	Strand	+
Start	6135	End	7679

Name	OJ991217_12.0204.C5.o2.np	Method	AAT/NAP
Start	6135	End	7679
GI	4680203	Score	497
Exons	6135..6368, 6644..7349, 7417..7679		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	21327	Seq. ID	OJ991217_12.0204.C5
Gene No.	44580	Strand	-
Start	1065	End	3848
Name	OJ991217_12.0204.C5.o2.gs	Method	GENSCAN
Start	1065	End	3848
GI	none	Score	.45
Exons	1065..1813, 2462..2583, 3766..3848		

Seq. No.	21327	Seq. ID	OJ991217_12.0204.C5
Gene No.	44580	Strand	-
Start	1065	End	3848
Name	OJ991217_12.0204.C5.o1.np	Method	AAT/NAP
Start	1142	End	1772
GI	5091513	Score	632
Exons	1142..1772		
GI Descrip.	(AB023482) Hypothetical protein [Oryza sativa]		

Seq. No.	21327	Seq. ID	OJ991217_12.0204.C5
Gene No.	44581	Strand	-
Start	5493	End	5999
Name	OJ991217_12.0204.C5.o2.tw	Method	TBLASTX:Wheat
Start	5493	End	5999
GI	none	Score	195
Exons	5493..5780, 5615..5803, 5832..5951, 5838..5957, 5949..5999		

Seq. No.	21327	Seq. ID	OJ991217_12.0204.C5
Gene No.	44581	Strand	-
Start	5493	End	5999
Name	OJ991217_12.0204.C5.o1.ts	Method	TBLASTX:Soybean
Start	5505	End	5780
GI	none	Score	277
Exons	5505..5780, 5519..5671		

Seq. No.	21327	Seq. ID	OJ991217_12.0204.C5
Gene No.	44582	Strand	-
Start	6222	End	7423
Name	OJ991217_12.0204.C5.o1.tm	Method	TBLASTX:Maize
Start	6222	End	6604
GI	none	Score	63
Exons	6222..6290, 6290..6466, 6291..6476, 6481..6600, 6482..6604		

Seq. No.	21327	Seq. ID	OJ991217_12.0204.C5
Gene No.	44582	Strand	-
Start	6222	End	7423
Name	OJ991217_12.0204.C5.o1.tw	Method	TBLASTX:Wheat
Start	6246	End	7423
GI	none	Score	125
Exons	6246..6452, 6482..6946, 6500..6760, 6983..7123, 6984..7106, 7127..7231, 7160..7213, 7235..7342, 7249..7341, 7337..7405, 7355..7423		

Seq. No. 21327  
 Gene No. 44582  
 Start 6222  
 Name OJ991217\_12.0204.C5.o1.tc  
 Start 6536  
 GI none  
 Exons 6536..6946, 6572..6760

Seq. ID OJ991217\_12.0204.C5  
 Strand  
 End 7423  
 Method TBLASTX:Cress  
 End 6946  
 Score 278

Seq. No. 21328  
 Gene No. 44583  
 Start 1150  
 Name OJ991217\_12.0204.C6.o1.gs  
 Start 1150  
 GI none  
 Exons 1150..1160, 2629..2750, 2968..3051

Seq. ID OJ991217\_12.0204.C6  
 Strand +  
 End 3051  
 Method GENSCAN  
 End 3051  
 Score .77

Seq. No. 21328  
 Gene No. 44583  
 Start 1150  
 Name OJ991217\_12.0204.C6.o1.tw  
 Start 1604  
 GI none  
 Exons 1604..1768, 1764..1889, 1768..1887

Seq. ID OJ991217\_12.0204.C6  
 Strand +  
 End 3051  
 Method TBLASTX:Wheat  
 End 1889  
 Score 118

Seq. No. 21329  
 Gene No. 44584  
 Start 35  
 Name OJ991217\_12.0204.C7.o1.gs  
 Start 35  
 GI none  
 Exons 35..104, 516..572

Seq. ID OJ991217\_12.0204.C7  
 Strand -  
 End 572  
 Method GENSCAN  
 End 572  
 Score .63

Seq. No. 21329  
 Gene No. 44585  
 Start 3318  
 Name OJ991217\_12.0204.C7.o2.gs  
 Start 3318  
 GI none  
 Exons 3318..3955

Seq. ID OJ991217\_12.0204.C7  
 Strand -  
 End 4840  
 Method GENSCAN  
 End 3955  
 Score .76

Seq. No. 21329  
 Gene No. 44585  
 Start 3318  
 Name OJ991217\_12.0204.C7.o1.np  
 Start 3456  
 GI 1947160  
 Exons 3456..3581, 3632..3692, 3799..4050, 4780..4840

Seq. ID OJ991217\_12.0204.C7  
 Strand -  
 End 4840  
 Method AAT/NAP  
 End 4840  
 Score 67

GI Descrip. (AF000298) weak similarity to collagens; glycine- and proline-rich [Caenorhabditis elegans]

Seq. No. 21330  
 Gene No. 44586  
 Start 1  
 Name OJ991217\_12.0204.C10.o1.np  
 Start 1  
 GI 6721512  
 Exons 1..27, 717..1049, 1521..1547

Seq. ID OJ991217\_12.0204.C10  
 Strand +  
 End 1547  
 Method AAT/NAP  
 End 1547  
 Score 71

GI Descrip. (AP001072) hypothetical protein [Oryza sativa]

Seq. No.	21330	Seq. ID	OJ991217_12.0204.C10
Gene No.	44586	Strand	+
Start	1	End	1547
Name	OJ991217_12.0204.C10.o1.gs	Method	GENSCAN
Start	703	End	1540
GI	none	Score	.4
Exons	703..802, 1010..1153, 1158..1261, 1399..1540		

Seq. No.	21331	Seq. ID	OJ991217_12.0204.C11
Gene No.	44587	Strand	+
Start	1	End	1269
Name	OJ991217_12.0204.C11.o1.np	Method	AAT/NAP
Start	1	End	1269
GI	6907089	Score	292
Exons	1..548, 1250..1269		

GI Descrip. (AP001129) hypothetical protein [Oryza sativa]

Seq. No.	21331	Seq. ID	OJ991217_12.0204.C11
Gene No.	44587	Strand	+
Start	1	End	1269
Name	OJ991217_12.0204.C11.o1.gs	Method	GENSCAN
Start	91	End	1151
GI	none	Score	.52
Exons	91..195, 268..424, 673..759, 826..1023, 1053..1151		

Seq. No.	21331	Seq. ID	OJ991217_12.0204.C11
Gene No.	44587	Strand	+
Start	1	End	1269
Name	OJ991217_12.0204.C11.o2.np	Method	AAT/NAP
Start	207	End	1261
GI	6721558	Score	83
Exons	207..285, 614..759, 904..1012, 1157..1261		

GI Descrip. (AP001073) hypothetical protein [Oryza sativa]

gi|6815083|dbj|BAA90369.1| (AP001081) hypothetical protein [Oryza sativa]

Seq. No.	21331	Seq. ID	OJ991217_12.0204.C11
Gene No.	44587	Strand	+
Start	1	End	1269
Name	OJ991217_12.0204.C11.o3.np	Method	AAT/NAP
Start	264	End	1269
GI	6721561	Score	223
Exons	264..332, 826..1023, 1093..1151, 1234..1269		

GI Descrip. (AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]  
gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No.	21332	Seq. ID	OJ991217_12.0204.C12
Gene No.	44588	Strand	+
Start	1	End	4518
Name	OJ991217_12.0204.C12.o1.np	Method	AAT/NAP
Start	1	End	657
GI	6721561	Score	833

Exons 1..657  
 GI Descrip. (AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]  
 gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No. 21332 Seq. ID OJ991217\_12.0204.C12  
 Gene No. 44588 Strand +  
 Start 1 End 4518  
 Name OJ991217\_12.0204.C12.o1.gs Method GENSCAN  
 Start 67 End 4518  
 GI none Score .43  
 Exons 67..656, 796..923, 1749..1864, 2980..3517, 4214..4518

Seq. No. 21332 Seq. ID OJ991217\_12.0204.C12  
 Gene No. 44589 Strand -  
 Start 1930 End 6322  
 Name OJ991217\_12.0204.C12.o2.np Method AAT/NAP  
 Start 1930 End 6322  
 GI 6063554 Score 173  
 Exons 1930..2104, 3137..3198, 3283..3466, 6244..6322  
 GI Descrip. (AP000615) ESTs AU075609(C63344), C71850(E0464), C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No. 21332 Seq. ID OJ991217\_12.0204.C12  
 Gene No. 44589 Strand -  
 Start 1930 End 6322  
 Name OJ991217\_12.0204.C12.o3.np Method AAT/NAP  
 Start 5134 End 6322  
 GI 5902445 Score 530  
 Exons 5134..5731, 6263..6322  
 GI Descrip. (AB030283) GAG-POL precursor [Oryza sativa]

Seq. No. 21332 Seq. ID OJ991217\_12.0204.C12  
 Gene No. 44589 Strand -  
 Start 1930 End 6322  
 Name OJ991217\_12.0204.C12.o1.tw Method TBLASTX:Wheat  
 Start 5143 End 5732  
 GI none Score 75  
 Exons 5143..5274, 5144..5269, 5406..5732, 5494..5601, 5647..5718

Seq. No. 21333 Seq. ID OJ991217\_12.0204.C13  
 Gene No. 44590 Strand +  
 Start 1150 End 6626  
 Name OJ991217\_12.0204.C13.o1.gs Method GENSCAN  
 Start 1150 End 1941  
 GI none Score .98  
 Exons 1150..1941

Seq. No. 21333 Seq. ID OJ991217\_12.0204.C13  
 Gene No. 44590 Strand +  
 Start 1150 End 6626  
 Name OJ991217\_12.0204.C13.o1.np Method AAT/NAP  
 Start 1150 End 1938  
 GI 4512231 Score 1280



Exons 1150..1938  
GI Descrip. (AB014741) ORF0 protein [Oryza sativa]

Seq. No.	21333	Seq. ID	OJ991217_12.0204.C13
Gene No.	44590	Strand	+
Start	1150	End	6626
Name	OJ991217_12.0204.C13.o2.np	Method	AAT/NAP
Start	1620	End	6623
GI	4680179	Score	5691
Exons	1620..1665, 2205..3194, 3222..6623		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	21333	Seq. ID	OJ991217_12.0204.C13
Gene No.	44590	Strand	+
Start	1150	End	6626
Name	OJ991217_12.0204.C13.o2.gs	Method	GENSCAN
Start	2205	End	6626
GI	none	Score	.47
Exons	2205..5281, 5378..6626		

Seq. No.	21333	Seq. ID	OJ991217_12.0204.C13
Gene No.	44591	Strand	+
Start	7319	End	8241
Name	OJ991217_12.0204.C13.o3.np	Method	AAT/NAP
Start	7319	End	8241
GI	5852178	Score	378
Exons	7319..7628, 7678..7778, 8147..8241		
GI Descrip.	(AL117265) zhb0008.1 [Oryza sativa]		

Seq. No.	21333	Seq. ID	OJ991217_12.0204.C13
Gene No.	44592	Strand	-
Start	7032	End	7754
Name	OJ991217_12.0204.C13.o3.gs	Method	GENSCAN
Start	7032	End	7754
GI	none	Score	.5
Exons	7032..7754		

Seq. No.	21333	Seq. ID	OJ991217_12.0204.C13
Gene No.	44593	Strand	-
Start	8145	End	10066
Name	OJ991217_12.0204.C13.o10.tw	Method	TBLASTX:Wheat
Start	2366	End	2564
GI	none	Score	215
Exons	2366..2563, 2367..2564		

Seq. No.	21333	Seq. ID	OJ991217_12.0204.C13
Gene No.	44593	Strand	-
Start	8145	End	10066
Name	OJ991217_12.0204.C13.o7.tw	Method	TBLASTX:Wheat
Start	2615	End	2966
GI	none	Score	309
Exons	2615..2788, 2616..2966, 2764..2832		

Seq. No.	21333	Seq. ID	OJ991217_12.0204.C13
Gene No.	44593	Strand	-
Start	8145	End	10066
Name	OJ991217_12.0204.C13.o6.tm	Method	TBLASTX:Maize

Start 2616  
GI none  
Exons 2616..2921

End 2921  
Score 246

Seq. No. 21333  
Gene No. 44593  
Start 8145  
Name OJ991217\_12.0204.C13.o9.tw  
Start 3300  
GI none  
Exons 3300..3653

Seq. ID OJ991217\_12.0204.C13  
Strand -  
End 10066  
Method TBLASTX:Wheat  
End 3653  
Score 256

Seq. No. 21333  
Gene No. 44593  
Start 8145  
Name OJ991217\_12.0204.C13.o8.tm  
Start 3657  
GI none  
Exons 3657..3848, 3695..3850

Seq. ID OJ991217\_12.0204.C13  
Strand -  
End 10066  
Method TBLASTX:Maize  
End 3850  
Score 188

Seq. No. 21333  
Gene No. 44593  
Start 8145  
Name OJ991217\_12.0204.C13.o4.tw  
Start 3785  
GI none  
Exons 3785..4225, 3786..4268, 3810..4265, 3895..4269

Seq. ID OJ991217\_12.0204.C13  
Strand -  
End 10066  
Method TBLASTX:Wheat  
End 4269  
Score 535

Seq. No. 21333  
Gene No. 44593  
Start 8145  
Name OJ991217\_12.0204.C13.o4.ts  
Start 3822  
GI none  
Exons 3822..4136

Seq. ID OJ991217\_12.0204.C13  
Strand -  
End 10066  
Method TBLASTX:Soybean  
End 4136  
Score 198

Seq. No. 21333  
Gene No. 44593  
Start 8145  
Name OJ991217\_12.0204.C13.o4.tm  
Start 3851  
GI none  
Exons 3851..4288, 3855..4298

Seq. ID OJ991217\_12.0204.C13  
Strand -  
End 10066  
Method TBLASTX:Maize  
End 4298  
Score 373

Seq. No. 21333  
Gene No. 44593  
Start 8145  
Name OJ991217\_12.0204.C13.o1.ts  
Start 4209  
GI none  
Exons 4209..4241, 4209..4241, 4245..4298, 4247..4288, 4353..4604, 4361..4594

Seq. ID OJ991217\_12.0204.C13  
Strand -  
End 10066  
Method TBLASTX:Soybean  
End 4604  
Score 57

Seq. No. 21333  
Gene No. 44593  
Start 8145  
Name OJ991217\_12.0204.C13.o5.tm

Seq. ID OJ991217\_12.0204.C13  
Strand -  
End 10066  
Method TBLASTX:Maize

21693

Start 4353  
GI none  
Exons 4353..4685, 4406..4684

End 4685  
Score 310

Seq. No. 21333  
Gene No. 44593  
Start 8145  
Name OJ991217\_12.0204.C13.o5.tw  
Start 4356  
GI none  
Exons 4356..4619, 4358..4618

Seq. ID OJ991217\_12.0204.C13  
Strand -  
End 10066  
Method TBLASTX:Wheat  
End 4619  
Score 373

Seq. No. 21333  
Gene No. 44593  
Start 8145  
Name OJ991217\_12.0204.C13.o3.tw  
Start 4620  
GI none  
Exons 4620..5045, 4622..5038

Seq. ID OJ991217\_12.0204.C13  
Strand -  
End 10066  
Method TBLASTX:Wheat  
End 5045  
Score 599

Seq. No. 21333  
Gene No. 44593  
Start 8145  
Name OJ991217\_12.0204.C13.o3.ts  
Start 4626  
GI none  
Exons 4626..4874

Seq. ID OJ991217\_12.0204.C13  
Strand -  
End 10066  
Method TBLASTX:Soybean  
End 4874  
Score 206

Seq. No. 21333  
Gene No. 44593  
Start 8145  
Name OJ991217\_12.0204.C13.o2.tm  
Start 4692  
GI none  
Exons 4692..5045, 4697..5038

Seq. ID OJ991217\_12.0204.C13  
Strand -  
End 10066  
Method TBLASTX:Maize  
End 5045  
Score 463

Seq. No. 21333  
Gene No. 44593  
Start 8145  
Name OJ991217\_12.0204.C13.o2.tw  
Start 5073  
GI none  
Exons 5073..5612, 5255..5608

Seq. ID OJ991217\_12.0204.C13  
Strand -  
End 10066  
Method TBLASTX:Wheat  
End 5612  
Score 624

Seq. No. 21333  
Gene No. 44593  
Start 8145  
Name OJ991217\_12.0204.C13.o1.tc  
Start 5310  
GI none  
Exons 5310..5492, 5493..5636, 5495..5635

Seq. ID OJ991217\_12.0204.C13  
Strand -  
End 10066  
Method TBLASTX:Cress  
End 5636  
Score 81

Seq. No. 21333  
Gene No. 44593  
Start 8145  
Name OJ991217\_12.0204.C13.o2.ts  
Start 5400

Seq. ID OJ991217\_12.0204.C13  
Strand -  
End 10066  
Method TBLASTX:Soybean  
End 5660

GI	none	Score	301
Exons	5400..5660, 5411..5659		
Seq. No.	21333	Seq. ID	OJ991217_12.0204.C13
Gene No.	44593	Strand	-
Start	8145	End	10066
Name	OJ991217_12.0204.C13.o3.tm	Method	TBLASTX:Maize
Start	5459	End	5750
GI	none	Score	411
Exons	5459..5746, 5460..5750, 5592..5747		

Seq. No.	21333	Seq. ID	OJ991217_12.0204.C13
Gene No.	44593	Strand	-
Start	8145	End	10066
Name	OJ991217_12.0204.C13.o1.tw	Method	TBLASTX:Wheat
Start	5619	End	6245
GI	none	Score	715
Exons	5619..6245, 5678..6124, 6185..6244		

Seq. No.	21333	Seq. ID	OJ991217_12.0204.C13
Gene No.	44593	Strand	-
Start	8145	End	10066
Name	OJ991217_12.0204.C13.o1.tm	Method	TBLASTX:Maize
Start	5798	End	6383
GI	none	Score	229
Exons	5798..5953, 5799..5960, 5813..5962, 5957..6121, 5958..6383, 6185..6382		

Seq. No.	21333	Seq. ID	OJ991217_12.0204.C13
Gene No.	44593	Strand	-
Start	8145	End	10066
Name	OJ991217_12.0204.C13.o6.tw	Method	TBLASTX:Wheat
Start	6245	End	6578
GI	none	Score	315
Exons	6245..6526, 6246..6578, 6411..6527		

Seq. No.	21333	Seq. ID	OJ991217_12.0204.C13
Gene No.	44593	Strand	-
Start	8145	End	10066
Name	OJ991217_12.0204.C13.o4.np	Method	AAT/NAP
Start	8145	End	10066
GI	6498441	Score	389
Exons	8145..8193, 9649..10066		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	21333	Seq. ID	OJ991217_12.0204.C13
Gene No.	44593	Strand	-
Start	8145	End	10066
Name	OJ991217_12.0204.C13.o8.tw	Method	TBLASTX:Wheat
Start	9688	End	10029
GI	none	Score	126
Exons	9688..9915, 9698..9916, 9906..10028, 9907..10029		

Seq. No.	21333	Seq. ID	OJ991217_12.0204.C13
Gene No.	44593	Strand	-

Start	8145	End	10066
Name	OJ991217_12.0204.C13.o4.gs	Method	GENSCAN
Start	9770	End	10000
GI	none	Score	.55
Exons	9770..10000		

Seq. No.	21333	Seq. ID	OJ991217_12.0204.C13
Gene No.	44593	Strand	-
Start	8145	End	10066
Name	OJ991217_12.0204.C13.o7.tm	Method	TBLASTX:Maize
Start	9868	End	10044
GI	none	Score	97
Exons	9868..9915, 9906..10031, 9907..10044		

Seq. No.	21334	Seq. ID	OJ991217_12.0204.C14
Gene No.	44594	Strand	+
Start	10554	End	12354
Name	OJ991217_12.0204.C14.o5.gs	Method	GENSCAN
Start	10554	End	12119
GI	none	Score	.96
Exons	10554..12119		

Seq. No.	21334	Seq. ID	OJ991217_12.0204.C14
Gene No.	44594	Strand	+
Start	10554	End	12354
Name	OJ991217_12.0204.C14.o3.np	Method	AAT/NAP
Start	10557	End	12354
GI	3445397	Score	1231
Exons	10557..12354		
GI Descrip.	(AJ010166) S-domain receptor-like protein kinase [Zea mays]		

Seq. No.	21334	Seq. ID	OJ991217_12.0204.C14
Gene No.	44595	Strand	-
Start	1	End	2042
Name	OJ991217_12.0204.C14.o1.np	Method	AAT/NAP
Start	1	End	2042
GI	5902445	Score	1908
Exons	1..168, 208..2042		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	21334	Seq. ID	OJ991217_12.0204.C14
Gene No.	44595	Strand	-
Start	1	End	2042
Name	OJ991217_12.0204.C14.o1.gs	Method	GENSCAN
Start	85	End	1679
GI	none	Score	.61
Exons	85..410, 644..1679		

Seq. No.	21334	Seq. ID	OJ991217_12.0204.C14
Gene No.	44596	Strand	-
Start	2106	End	12352
Name	OJ991217_12.0204.C14.o7.tw	Method	TBLASTX:Wheat
Start	190	End	546
GI	none	Score	49
Exons	190..435, 371..412, 447..545, 451..546		

Seq. No.	21334	Seq. ID	OJ991217_12.0204.C14
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Gene No.	44596	Strand	-
Start	2106	End	12352
Name	OJ991217_12.0204.C14.o4.ts	Method	TBLASTX:Soybean
Start	450	End	833
GI	none	Score	85
Exons	450..713, 720..833		
Seq. No.	21334	Seq. ID	OJ991217_12.0204.C14
Gene No.	44596	Strand	-
Start	2106	End	12352
Name	OJ991217_12.0204.C14.o5.tw	Method	TBLASTX:Wheat
Start	549	End	956
GI	none	Score	57
Exons	549..722, 550..672, 730..891, 732..956		
Seq. No.	21334	Seq. ID	OJ991217_12.0204.C14
Gene No.	44596	Strand	-
Start	2106	End	12352
Name	OJ991217_12.0204.C14.o2.ts	Method	TBLASTX:Soybean
Start	1047	End	1472
GI	none	Score	92
Exons	1047..1472, 1288..1428		
Seq. No.	21334	Seq. ID	OJ991217_12.0204.C14
Gene No.	44596	Strand	-
Start	2106	End	12352
Name	OJ991217_12.0204.C14.o2.tw	Method	TBLASTX:Wheat
Start	1102	End	1526
GI	none	Score	240
Exons	1102..1428, 1104..1526		
Seq. No.	21334	Seq. ID	OJ991217_12.0204.C14
Gene No.	44596	Strand	-
Start	2106	End	12352
Name	OJ991217_12.0204.C14.o3.tm	Method	TBLASTX:Maize
Start	1200	End	1583
GI	none	Score	102
Exons	1200..1583, 1201..1428, 1439..1534		
Seq. No.	21334	Seq. ID	OJ991217_12.0204.C14
Gene No.	44596	Strand	-
Start	2106	End	12352
Name	OJ991217_12.0204.C14.o1.tm	Method	TBLASTX:Maize
Start	1611	End	1967
GI	none	Score	219
Exons	1611..1967, 1612..1905		
Seq. No.	21334	Seq. ID	OJ991217_12.0204.C14
Gene No.	44596	Strand	-
Start	2106	End	12352
Name	OJ991217_12.0204.C14.o1.tw	Method	TBLASTX:Wheat
Start	1641	End	2097
GI	none	Score	362
Exons	1641..2096, 1642..2097		
Seq. No.	21334	Seq. ID	OJ991217_12.0204.C14
Gene No.	44596	Strand	-

Start	2106	End	12352
Name	OJ991217_12.0204.C14.o2.gs	Method	GENSCAN
Start	2106	End	2768
GI	none	Score	.97
Exons	2106..2768		

Seq. No.	21334	Seq. ID	OJ991217_12.0204.C14
Gene No.	44596	Strand	-
Start	2106	End	12352
Name	OJ991217_12.0204.C14.o2.np	Method	AAT/NAP
Start	2109	End	11555
GI	5902444	Score	956
Exons	2109..2787, 5787..6767, 6930..7197, 11526..11555		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	21334	Seq. ID	OJ991217_12.0204.C14
Gene No.	44596	Strand	-
Start	2106	End	12352
Name	OJ991217_12.0204.C14.o4.tw	Method	TBLASTX:Wheat
Start	2289	End	2741
GI	none	Score	110
Exons	2289..2549, 2304..2549, 2559..2741, 2560..2733		

Seq. No.	21334	Seq. ID	OJ991217_12.0204.C14
Gene No.	44596	Strand	-
Start	2106	End	12352
Name	OJ991217_12.0204.C14.o3.gs	Method	GENSCAN
Start	3172	End	3894
GI	none	Score	.66
Exons	3172..3894		

Seq. No.	21334	Seq. ID	OJ991217_12.0204.C14
Gene No.	44596	Strand	-
Start	2106	End	12352
Name	OJ991217_12.0204.C14.o4.gs	Method	GENSCAN
Start	4979	End	8997
GI	none	Score	.49
Exons	4979..5236, 5801..6436, 6507..6618, 6762..8259, 8687..8754, 8978..8997		

Seq. No.	21334	Seq. ID	OJ991217_12.0204.C14
Gene No.	44596	Strand	-
Start	2106	End	12352
Name	OJ991217_12.0204.C14.o6.tw	Method	TBLASTX:Wheat
Start	6371	End	6769
GI	none	Score	100
Exons	6371..6646, 6420..6641, 6605..6718, 6611..6694, 6615..6707, 6719..6769		

Seq. No.	21334	Seq. ID	OJ991217_12.0204.C14
Gene No.	44596	Strand	-
Start	2106	End	12352
Name	OJ991217_12.0204.C14.o1.tc	Method	TBLASTX:Cress
Start	10997	End	12352
GI	none	Score	93
Exons	10997..11083, 11160..11273, 11174..11272, 11310..11561, 11607..11729, 11969..12142, 12125..12352		

Seq. No.	21334	Seq. ID	OJ991217_12.0204.C14
Gene No.	44596	Strand	-
Start	2106	End	12352
Name	OJ991217_12.0204.C14.o3.ts	Method	TBLASTX:Soybean
Start	11250	End	11651
GI	none	Score	94
Exons	11250..11378, 11255..11377, 11385..11651, 11426..11644		

Seq. No.	21334	Seq. ID	OJ991217_12.0204.C14
Gene No.	44596	Strand	-
Start	2106	End	12352
Name	OJ991217_12.0204.C14.o3.tw	Method	TBLASTX:Wheat
Start	11372	End	11772
GI	none	Score	117
Exons	11372..11617, 11384..11605, 11385..11771, 11424..11771, 11455..11772		

Seq. No.	21334	Seq. ID	OJ991217_12.0204.C14
Gene No.	44596	Strand	-
Start	2106	End	12352
Name	OJ991217_12.0204.C14.o1.ts	Method	TBLASTX:Soybean
Start	11913	End	12352
GI	none	Score	344
Exons	11913..11963, 12020..12325, 12022..12315, 12026..12325, 12314..12352		

Seq. No.	21334	Seq. ID	OJ991217_12.0204.C14
Gene No.	44596	Strand	-
Start	2106	End	12352
Name	OJ991217_12.0204.C14.o2.tm	Method	TBLASTX:Maize
Start	12014	End	12325
GI	none	Score	142
Exons	12014..12130, 12016..12129, 12125..12325, 12127..12315		

Seq. No.	21335	Seq. ID	OJ991217_12.0204.C15
Gene No.	44597	Strand	+
Start	657	End	955
Name	OJ991217_12.0204.C15.o1.gp	Method	AAT/GAP
Start	657	End	955
GI	uC-osflcyp138d02a1	Score	598
Exons	657..955		
GI Descrip.	'6069643/dbj AP000616.1 AP000616 1.0e-152 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	21335	Seq. ID	OJ991217_12.0204.C15
Gene No.	44598	Strand	-
Start	191	End	1168
Name	OJ991217_12.0204.C15.o1.gs	Method	GENSCAN
Start	191	End	1168
GI	none	Score	.69
Exons	191..235, 871..992, 1030..1168		

Seq. No.	21335	Seq. ID	OJ991217_12.0204.C15
Gene No.	44599	Strand	-
Start	5290	End	5976
Name	OJ991217_12.0204.C15.o2.gs	Method	GENSCAN



Start 5290  
 GI none  
 Exons 5290..5388, 5806..5976

End 5976  
 Score .71

Seq. No. 21336  
 Gene No. 44600  
 Start 801  
 Name OJ991217\_12.0204.C16.o1.gs  
 Start 801  
 GI none  
 Exons 801..921, 1033..1213, 1300..1625, 2379..2925

Seq. ID OJ991217\_12.0204.C16  
 Strand -  
 End 2925  
 Method GENSCAN  
 End 2925  
 Score .61

Seq. No. 21337  
 Gene No. 44601  
 Start 4402  
 Name OJ991217\_12.0204.C17.o1.gp  
 Start 4402  
 GI 4878407  
 Exons 4402..4826  
 GI Descrip. 6069643/dbj|AP000616.1|AP000616 1.0e-152 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12

Seq. ID OJ991217\_12.0204.C17  
 Strand +  
 End 4826  
 Method AAT/GAP  
 End 4826  
 Score 666

Seq. No. 21337  
 Gene No. 44602  
 Start 6247  
 Name OJ991217\_12.0204.C17.o1.np  
 Start 6247  
 GI 3445397  
 Exons 6247..8608, 9692..9729  
 GI Descrip. (AJ010166) S-domain receptor-like protein kinase [Zea mays]

Seq. ID OJ991217\_12.0204.C17  
 Strand +  
 End 9729  
 Method AAT/NAP  
 End 9729  
 Score 1833

Seq. No. 21337  
 Gene No. 44602  
 Start 6247  
 Name OJ991217\_12.0204.C17.o2.gs  
 Start 6247  
 GI none  
 Exons 6247..8649

Seq. ID OJ991217\_12.0204.C17  
 Strand +  
 End 9729  
 Method GENSCAN  
 End 8649  
 Score .7

Seq. No. 21337  
 Gene No. 44603  
 Start 10277  
 Name OJ991217\_12.0204.C17.o2.np  
 Start 10277  
 GI 6907106  
 Exons 10277..10338, 10372..11160  
 GI Descrip. (AP001129) EST AU068291(C12960) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. ID OJ991217\_12.0204.C17  
 Strand +  
 End 11160  
 Method AAT/NAP  
 End 11160  
 Score 178

Seq. No. 21337  
 Gene No. 44604  
 Start 15601  
 Name OJ991217\_12.0204.C17.o2.gp  
 Start 15601  
 GI 37591\_1.R1084  
 Exons 15601..16223  
 GI Descrip. '3298541 2.0e-18 (AC004681) putative cellulose synthase

Seq. ID OJ991217\_12.0204.C17  
 Strand +  
 End 16223  
 Method AAT/GAP  
 End 16223  
 Score 1180

[Arabidopsis thaliana]'

Seq. No.	21337	Seq. ID	OJ991217_12.0204.C17
Gene No.	44605	Strand	-
Start	2026	End	5990
Name	OJ991217_12.0204.C17.o1.gs	Method	GENSCAN
Start	2026	End	5990
GI	none	Score	.73
Exons	2026..2208, 2651..2792, 3739..3907, 4267..4373, 4936..5130, 5902..5990		

Seq. No.	21337	Seq. ID	OJ991217_12.0204.C17
Gene No.	44606	Strand	-
Start	10440	End	13387
Name	OJ991217_12.0204.C17.o3.gs	Method	GENSCAN
Start	10440	End	13387
GI	none	Score	.55
Exons	10440..10553, 10558..10773, 10941..11299, 11970..12069, 12884..13198, 13385..13387		

Seq. No.	21337	Seq. ID	OJ991217_12.0204.C17
Gene No.	44607	Strand	-
Start	15739	End	20855
Name	OJ991217_12.0204.C17.o4.gs	Method	GENSCAN
Start	15739	End	20855
GI	none	Score	.68
Exons	15739..16296, 16540..16812, 16905..17089, 17358..17415, 17558..17770, 18053..18172, 18332..18457, 20164..20491, 20596..20855		

Seq. No.	21337	Seq. ID	OJ991217_12.0204.C17
Gene No.	44607	Strand	-
Start	15739	End	20855
Name	OJ991217_12.0204.C17.o3.np	Method	AAT/NAP
Start	15742	End	20855
GI	3298542	Score	1253
Exons	15742..16231, 16408..16812, 16905..17089, 17340..17464, 17570..17770, 18053..18172, 18332..18457, 20164..20491, 20596..20855		

GI Descrip. (AC004681) putative cellulose synthase [Arabidopsis thaliana]

Seq. No.	21337	Seq. ID	OJ991217_12.0204.C17
Gene No.	44607	Strand	-
Start	15739	End	20855
Name	OJ991217_12.0204.C17.o3.gp	Method	AAT/GAP
Start	20328	End	20849
GI	uC-osf1M202046f02b1	Score	792
Exons	20328..20491, 20596..20849		

GI Descrip. '4519589/dbj|AB017542.1|AB017542 5.0e-29 Oryza sativa transposable element RMu2-IR36 DNA, complete sequence'

Seq. No.	21337	Seq. ID	OJ991217_12.0204.C17
Gene No.	44608	Strand	-
Start	22286	End	22549
Name	OJ991217_12.0204.C17.o1.tc	Method	TBLASTX:Cress
Start	6688	End	8610
GI	none	Score	54

Exons 6688..6738, 6850..6963, 6991..7248, 7294..7416, 7615..7806,  
7701..7790, 7803..8333, 7804..8334, 8368..8610, 8370..8552

Seq. No. 21337 Seq. ID OJ991217\_12.0204.C17  
Gene No. 44608 Strand -  
Start 22286 End 22549  
Name OJ991217\_12.0204.C17.o7.tm Method TBLASTX:Maize  
Start 6979 End 7422  
GI none Score 92  
Exons 6979..7179, 7171..7293, 7297..7422

Seq. No. 21337 Seq. ID OJ991217\_12.0204.C17  
Gene No. 44608 Strand -  
Start 22286 End 22549  
Name OJ991217\_12.0204.C17.o1.tw Method TBLASTX:Wheat  
Start 7059 End 7458  
GI none Score 63  
Exons 7059..7304, 7071..7289, 7072..7458, 7297..7449

Seq. No. 21337 Seq. ID OJ991217\_12.0204.C17  
Gene No. 44608 Strand -  
Start 22286 End 22549  
Name OJ991217\_12.0204.C17.o5.ts Method TBLASTX:Soybean  
Start 7072 End 7332  
GI none Score 214  
Exons 7072..7332, 7098..7331

Seq. No. 21337 Seq. ID OJ991217\_12.0204.C17  
Gene No. 44608 Strand -  
Start 22286 End 22549  
Name OJ991217\_12.0204.C17.o2.tm Method TBLASTX:Maize  
Start 7693 End 8139  
GI none Score 139  
Exons 7693..7821, 7695..7820, 7806..7994, 7810..8004, 8009..8134,  
8011..8136, 8013..8138, 8014..8139

Seq. No. 21337 Seq. ID OJ991217\_12.0204.C17  
Gene No. 44608 Strand -  
Start 22286 End 22549  
Name OJ991217\_12.0204.C17.o1.ts Method TBLASTX:Soybean  
Start 7699 End 8146  
GI none Score 329  
Exons 7699..8004, 7701..7994, 7705..8004, 7993..8145, 7998..8144,  
8000..8146

Seq. No. 21337 Seq. ID OJ991217\_12.0204.C17  
Gene No. 44608 Strand -  
Start 22286 End 22549  
Name OJ991217\_12.0204.C17.o2.tw Method TBLASTX:Wheat  
Start 7864 End 8277  
GI none Score 107  
Exons 7864..8016, 8001..8177, 8011..8214, 8014..8178, 8215..8277

Seq. No. 21337 Seq. ID OJ991217\_12.0204.C17  
Gene No. 44608 Strand -  
Start 22286 End 22549  
Name OJ991217\_12.0204.C17.o6.tm Method TBLASTX:Maize

Start 8140  
 GI none  
 Exons 8140..8337, 8142..8249

End 8337  
 Score 252

Seq. No. 21337  
 Gene No. 44608  
 Start 22286  
 Name OJ991217\_12.0204.C17.o4.ts  
 Start 8205  
 GI none  
 Exons 8205..8249, 8206..8334, 8219..8308, 8239..8334, 8298..8336, 8443..8586

Seq. ID OJ991217\_12.0204.C17  
 Strand -  
 End 22549  
 Method TBLASTX:Soybean  
 End 8586  
 Score 171

Seq. No. 21337  
 Gene No. 44608  
 Start 22286  
 Name OJ991217\_12.0204.C17.o5.tm  
 Start 8436  
 GI none  
 Exons 8436..8612, 8440..8613, 8444..8614

Seq. ID OJ991217\_12.0204.C17  
 Strand -  
 End 22549  
 Method TBLASTX:Maize  
 End 8614  
 Score 254

Seq. No. 21337  
 Gene No. 44608  
 Start 22286  
 Name OJ991217\_12.0204.C17.o3.tm  
 Start 15736  
 GI none  
 Exons 15736..15828, 15749..15829, 15826..16089, 15827..16090

Seq. ID OJ991217\_12.0204.C17  
 Strand -  
 End 22549  
 Method TBLASTX:Maize  
 End 16090  
 Score 62

Seq. No. 21337  
 Gene No. 44608  
 Start 22286  
 Name OJ991217\_12.0204.C17.o3.tc  
 Start 16078  
 GI none  
 Exons 16078..16269, 16459..16815, 16562..16810, 16702..16815, 16902..16958, 17399..17458, 17576..17767, 17667..17768, 18048..18143, 18050..18142

Seq. ID OJ991217\_12.0204.C17  
 Strand -  
 End 22549  
 Method TBLASTX:Cress  
 End 18143  
 Score 128

Seq. No. 21337  
 Gene No. 44608  
 Start 22286  
 Name OJ991217\_12.0204.C17.o2.ts  
 Start 16456  
 GI none  
 Exons 16456..16815, 16646..16816, 16902..17093, 17393..17473, 17576..17602

Seq. ID OJ991217\_12.0204.C17  
 Strand -  
 End 22549  
 Method TBLASTX:Soybean  
 End 17602  
 Score 103

Seq. No. 21337  
 Gene No. 44608  
 Start 22286  
 Name OJ991217\_12.0204.C17.o1.tm  
 Start 16508  
 GI none  
 Exons 16508..16813, 16510..16815, 16513..16815, 16515..16820, 16892..16951, 16902..17081, 16903..17058

Seq. ID OJ991217\_12.0204.C17  
 Strand -  
 End 22549  
 Method TBLASTX:Maize  
 End 17081  
 Score 318

Seq. No.	21337	Seq. ID	OJ991217_12.0204.C17
Gene No.	44608	Strand	-
Start	22286	End	22549
Name	OJ991217_12.0204.C17.o4.tm	Method	TBLASTX:Maize
Start	17663	End	20699
GI	none	Score	95
Exons	17663..17767, 18050..18142, 20209..20370, 20228..20371, 20380..20484, 20595..20699		

Seq. No.	21337	Seq. ID	OJ991217_12.0204.C17
Gene No.	44608	Strand	-
Start	22286	End	22549
Name	OJ991217_12.0204.C17.o3.ts	Method	TBLASTX:Soybean
Start	20209	End	20699
GI	none	Score	73
Exons	20209..20370, 20228..20359, 20380..20481, 20595..20699		

Seq. No.	21337	Seq. ID	OJ991217_12.0204.C17
Gene No.	44608	Strand	-
Start	22286	End	22549
Name	OJ991217_12.0204.C17.o2.tc	Method	TBLASTX:Cress
Start	20215	End	20699
GI	none	Score	102
Exons	20215..20370, 20228..20371, 20377..20493, 20595..20699		

Seq. No.	21337	Seq. ID	OJ991217_12.0204.C17
Gene No.	44608	Strand	-
Start	22286	End	22549
Name	OJ991217_12.0204.C17.o5.gs	Method	GENSCAN
Start	22286	End	22549
GI	none	Score	.67
Exons	22286..22549		

Seq. No.	21338	Seq. ID	OJ991217_12.0204.C20
Gene No.	44609	Strand	+
Start	312	End	405
Name	OJ991217_12.0204.C20.o1.gs	Method	GENSCAN
Start	312	End	405
GI	none	Score	.43
Exons	312..405		

Seq. No.	21338	Seq. ID	OJ991217_12.0204.C20
Gene No.	44610	Strand	+
Start	634	End	717
Name	OJ991217_12.0204.C20.o1.gp	Method	AAT/GAP
Start	634	End	717
GI	49175_1.R1084	Score	137
Exons	634..717		
GI Descrip.	'5730134/emb CAB52468.1  1.0e-13 (AL109796) putative protein [Arabidopsis thaliana]'		

Seq. No.	21339	Seq. ID	OJ991217_12.0204.C21
Gene No.	44611	Strand	+
Start	102	End	2862
Name	OJ991217_12.0204.C21.o1.gs	Method	GENSCAN
Start	102	End	2862
GI	none	Score	.59

Exons 102..194, 304..490, 2675..2862

Seq. No.	21339	Seq. ID	OJ991217_12.0204.C21
Gene No.	44611	Strand	+
Start	102	End	2862
Name	OJ991217_12.0204.C21.o1.gp	Method	AAT/GAP
Start	301	End	1696
GI	none	Score	912
Exons	301..490, 992..1080, 1468..1696		

Seq. No.	21339	Seq. ID	OJ991217_12.0204.C21
Gene No.	44612	Strand	-
Start	1710	End	2254
Name	OJ991217_12.0204.C21.o2.gp	Method	AAT/GAP
Start	1710	End	2254
GI	none	Score	983
Exons	1710..2254		

Seq. No.	21339	Seq. ID	OJ991217_12.0204.C21
Gene No.	44613	Strand	-
Start	2763	End	5033
Name	OJ991217_12.0204.C21.o2.tm	Method	TBLASTX:Maize
Start	2	End	485
GI	none	Score	77
Exons	2..181, 14..199, 78..206, 322..357, 326..454, 353..442, 355..444, 355..477, 375..485		

Seq. No.	21339	Seq. ID	OJ991217_12.0204.C21
Gene No.	44613	Strand	-
Start	2763	End	5033
Name	OJ991217_12.0204.C21.o1.tm	Method	TBLASTX:Maize
Start	2599	End	4922
GI	none	Score	74
Exons	2599..2676, 2600..2680, 2604..2705, 2759..2896, 2760..2909, 2760..2906, 2761..2952, 3053..3193, 3060..3194, 3060..3209, 3061..3210, 4750..4821, 4869..4922		

Seq. No.	21339	Seq. ID	OJ991217_12.0204.C21
Gene No.	44613	Strand	-
Start	2763	End	5033
Name	OJ991217_12.0204.C21.o1.tc	Method	TBLASTX:Cress
Start	2721	End	3191
GI	none	Score	77
Exons	2721..2906, 2736..2888, 2767..2949, 2776..2925, 3053..3190, 3054..3191, 3057..3191		

Seq. No.	21339	Seq. ID	OJ991217_12.0204.C21
Gene No.	44613	Strand	-
Start	2763	End	5033
Name	OJ991217_12.0204.C21.o1.np	Method	AAT/NAP
Start	2763	End	5033
GI	4432840	Score	506
Exons	2763..2951, 3059..3191, 4747..4892, 4965..5033		
GI Descrip.	(AC006283) unknown protein [Arabidopsis thaliana]		

Seq. No.	21340	Seq. ID	OJ991217_12.0204.C23
Gene No.	44614	Strand	-

End	357
Method	GENSCAN
End	357
Score	.9

```
Seq. ID  OJ991217_12.0204.C25
Strand   +
End       205
Method    GENSCAN
End       205
Score     .81
```

```
Seq. ID  OJ991217_12.0204.C26
Strand   -
End      417
Method   AAT/NAP
End      325
Score    108
```

```
Seq. No.      21342
Gene No.      44616
Start         1
Name          OJ991217_12.0204.C26.o1.gs
Start         83
GI            none
Exons         83..417
```

```
Seq. ID  OJ991217_12.0204.C26
Strand   -
End      417
Method   GENSCAN
End      417
Score    .63
```

Seq. No.	21343
Gene No.	44617
Start	24
Name	OJ991217_12.0204.C28.o1.gs
Start	24
GI	none
Exons	24..155

```
Seq. ID   OJ991217_12.0204.C28
Strand    -
End       155
Method    GENSCAN
End       155
Score     .83
```

```
Seq. No.      21344
Gene No.      44618
Start         190
Name          OJ991217_12.0204.C30.o1.gs
Start         190
GI            none
Exons         190..555
```

```
Seq. ID  OJ991217_12.0204.C30
Strand    +
End       555
Method    GENSCAN
End       555
Score     .53
```

```
Seq. No.      21345
Gene No.      44619
Start         360
Name          OJ991217_12.0204.C32.o1.gs
Start         360
GI            none
Exons         360..532
```

```
Seq. ID   OJ991217_12.0204.C32
Strand    +
End       532
Method    GENSCAN
End       532
Score     .8
```

Seq. ID OJ991217 12.0204.C33

Gene No.	44620	Strand	-
Start	1	End	309
Name	OJ991217_12.0204.C33.o1.np	Method	AAT/NAP
Start	1	End	309
GI	6539553	Score	534
Exons	1..309		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi 6539590 dbj BAA88206.1  (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	21346	Seq. ID	OJ991217_12.0204.C33
Gene No.	44620	Strand	-
Start	1	End	309
Name	OJ991217_12.0204.C33.o1.tm	Method	TBLASTX:Maize
Start	1	End	253
GI	none	Score	298
Exons	1..246, 2..226, 2..253, 9..245		

Seq. No.	21346	Seq. ID	OJ991217_12.0204.C33
Gene No.	44620	Strand	-
Start	1	End	309
Name	OJ991217_12.0204.C33.o1.gs	Method	GENSCAN
Start	88	End	231
GI	none	Score	.78
Exons	88..231		

Seq. No.	21347	Seq. ID	OJ991217_12.0204.C35
Gene No.	44621	Strand	+
Start	102	End	245
Name	OJ991217_12.0204.C35.o1.gs	Method	GENSCAN
Start	102	End	245
GI	none	Score	.82
Exons	102..245		

Seq. No.	21348	Seq. ID	OJ991217_12.0204.C36
Gene No.	44622	Strand	+
Start	1	End	596
Name	OJ991217_12.0204.C36.o1.np	Method	AAT/NAP
Start	1	End	593
GI	6498436	Score	373
Exons	1..207, 475..593		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	21348	Seq. ID	OJ991217_12.0204.C36
Gene No.	44622	Strand	+
Start	1	End	596
Name	OJ991217_12.0204.C36.o1.gs	Method	GENSCAN
Start	149	End	596
GI	none	Score	.75
Exons	149..191, 475..596		

Seq. No.	21349	Seq. ID	OJ991217_12.0204.C38
Gene No.	44623	Strand	+
Start	1	End	253
Name	OJ991217_12.0204.C38.o1.gp	Method	AAT/GAP
Start	1	End	253



GI 91759 1.R1084 Score 458  
 Exons 1..253  
 GI Descrip. '4585924/gb|AAD25584.1|AC007211\_6 2.0e-18 (AC007211)  
 hypothetical protein [Arabidopsis thaliana]'

Seq. No. 21350 Seq. ID OJ991217\_12.0204.C39  
 Gene No. 44624 Strand -  
 Start 45 End 138  
 Name OJ991217\_12.0204.C39.o1.gs Method GENSCAN  
 Start 45 End 138  
 GI none Score .49  
 Exons 45..138

Seq. No. 21351 Seq. ID OJ991027\_09.0207.C1  
 Gene No. 44625 Strand -  
 Start 330 End 598  
 Name OJ991027\_09.0207.C1.o1.gs Method GENSCAN  
 Start 330 End 598  
 GI none Score .76  
 Exons 330..428, 547..598

Seq. No. 21352 Seq. ID OJ991027\_09.0207.C2  
 Gene No. 44626 Strand +  
 Start 1 End 9344  
 Name OJ991027\_09.0207.C2.o1.np Method AAT/NAP  
 Start 1 End 3290  
 GI 4680203 Score 2036  
 Exons 1..1554, 1597..1689, 1843..2073, 2350..3290  
 GI Descrip. (AF114171) TNP2-like protein [Sorghum bicolor]

Seq. No. 21352 Seq. ID OJ991027\_09.0207.C2  
 Gene No. 44626 Strand +  
 Start 1 End 9344  
 Name OJ991027\_09.0207.C2.o1.gs Method GENSCAN  
 Start 111 End 9228  
 GI none Score .74  
 Exons 111..409, 572..2881, 2971..3234, 3612..3665, 3871..4416,  
 6228..6961, 7040..7501, 7583..8415, 8498..8668, 8835..9006,  
 9112..9228

Seq. No. 21352 Seq. ID OJ991027\_09.0207.C2  
 Gene No. 44626 Strand +  
 Start 1 End 9344  
 Name OJ991027\_09.0207.C2.o2.np Method AAT/NAP  
 Start 188 End 5502  
 GI 1076802 Score 290  
 Exons 188..231, 3871..4435, 5474..5502  
 GI Descrip. extensin-like protein - maize gi|600118|emb|CAA84230| (Z34465)  
 extensin-like protein [Zea mays] gi|1096557|prf||2111476A  
 extensin-like domain [Zea mays]

Seq. No. 21352 Seq. ID OJ991027\_09.0207.C2  
 Gene No. 44626 Strand +  
 Start 1 End 9344  
 Name OJ991027\_09.0207.C2.o3.tw Method TBLASTX:Wheat  
 Start 334 End 885  
 GI none Score 229

Exons	334..732, 558..734, 780..875, 781..885		
Seq. No.	21352	Seq. ID	OJ991027_09.0207.C2
Gene No.	44626	Strand	+
Start	1	End	9344
Name	OJ991027_09.0207.C2.o1.ts	Method	TBLASTX:Soybean
Start	613	End	1032
GI	none	Score	126
Exons	613..732, 615..734, 783..1028, 784..1032		
Seq. No.	21352	Seq. ID	OJ991027_09.0207.C2
Gene No.	44626	Strand	+
Start	1	End	9344
Name	OJ991027_09.0207.C2.o1.tc	Method	TBLASTX:Cress
Start	780	End	1110
GI	none	Score	309
Exons	780..917, 781..1110, 954..1013, 964..1068, 1035..1109		
Seq. No.	21352	Seq. ID	OJ991027_09.0207.C2
Gene No.	44626	Strand	+
Start	1	End	9344
Name	OJ991027_09.0207.C2.o2.tw	Method	TBLASTX:Wheat
Start	898	End	1364
GI	none	Score	54
Exons	898..951, 906..941, 952..1056, 963..1049, 1048..1158, 1057..1173, 1061..1159, 1065..1235, 1176..1364, 1204..1359		
Seq. No.	21352	Seq. ID	OJ991027_09.0207.C2
Gene No.	44626	Strand	+
Start	1	End	9344
Name	OJ991027_09.0207.C2.o1.tm	Method	TBLASTX:Maize
Start	955	End	1398
GI	none	Score	221
Exons	955..1200, 1204..1398		
Seq. No.	21352	Seq. ID	OJ991027_09.0207.C2
Gene No.	44626	Strand	+
Start	1	End	9344
Name	OJ991027_09.0207.C2.o2.ts	Method	TBLASTX:Soybean
Start	1233	End	1467
GI	none	Score	250
Exons	1233..1388, 1234..1467		
Seq. No.	21352	Seq. ID	OJ991027_09.0207.C2
Gene No.	44626	Strand	+
Start	1	End	9344
Name	OJ991027_09.0207.C2.o4.tw	Method	TBLASTX:Wheat
Start	1606	End	1956
GI	none	Score	184
Exons	1606..1836, 1635..1835, 1872..1955, 1873..1956		
Seq. No.	21352	Seq. ID	OJ991027_09.0207.C2
Gene No.	44626	Strand	+
Start	1	End	9344
Name	OJ991027_09.0207.C2.o3.tm	Method	TBLASTX:Maize
Start	1612	End	1827
GI	none	Score	166

Exons 1612..1758, 1641..1748, 1765..1827

Seq. No.	21352	Seq. ID	OJ991027_09.0207.C2
Gene No.	44626	Strand	+
Start	1	End	9344
Name	OJ991027_09.0207.C2.o2.tm	Method	TBLASTX:Maize
Start	1864	End	2349
GI	none	Score	299
Exons	1864..2349, 1881..2057, 2193..2342		

Seq. No.	21352	Seq. ID	OJ991027_09.0207.C2
Gene No.	44626	Strand	+
Start	1	End	9344
Name	OJ991027_09.0207.C2.o1.gp	Method	AAT/GAP
Start	1945	End	3404
GI	5002953	Score	1272
Exons	1945..2076, 2335..2744, 3223..3404		
GI Descrip.	4680203/gb AAD27566.1 AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	21352	Seq. ID	OJ991027_09.0207.C2
Gene No.	44626	Strand	+
Start	1	End	9344
Name	OJ991027_09.0207.C2.o1.tw	Method	TBLASTX:Wheat
Start	1960	End	3179
GI	none	Score	491
Exons	1960..2502, 2004..2450, 2521..2682, 2538..2678, 2686..2877, 2721..2861, 2866..2913, 2913..2957, 2925..2957, 2981..3058, 2982..3086, 3087..3179		

Seq. No.	21352	Seq. ID	OJ991027_09.0207.C2
Gene No.	44626	Strand	+
Start	1	End	9344
Name	OJ991027_09.0207.C2.o2.tc	Method	TBLASTX:Cress
Start	2247	End	2673
GI	none	Score	209
Exons	2247..2450, 2251..2502, 2521..2673, 2538..2660		

Seq. No.	21352	Seq. ID	OJ991027_09.0207.C2
Gene No.	44626	Strand	+
Start	1	End	9344
Name	OJ991027_09.0207.C2.o2.gp	Method	AAT/GAP
Start	8824	End	9344
GI	LIB3431-001-P1-N1-B5	Score	758
Exons	8824..9006, 9112..9344		
GI Descrip.	'4680203/gb AAD27566.1 AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	21353	Seq. ID	OJ991027_09.0207.C3
Gene No.	44627	Strand	-
Start	773	End	1411
Name	OJ991027_09.0207.C3.o1.np	Method	AAT/NAP
Start	773	End	1411
GI	4559367	Score	176
Exons	773..1411		
GI Descrip.	(AC006585) putative MADS-box protein [Arabidopsis thaliana]		

Seq. No.	21354	Seq. ID	OJ991027_09.0207.C4
Gene No.	44628	Strand	+
Start	3	End	2427
Name	OJ991027_09.0207.C4.o1.gs	Method	GENSCAN
Start	3	End	2427
GI	none	Score	.59
Exons	3..114, 1925..1994, 2117..2264, 2311..2427		
Seq. No.	21354	Seq. ID	OJ991027_09.0207.C4
Gene No.	44629	Strand	+
Start	6772	End	7029
Name	OJ991027_09.0207.C4.o3.np	Method	AAT/NAP
Start	6772	End	7029
GI	6006879	Score	89
Exons	6772..7029		
GI Descrip.	(AC008153) putative eukaryotic translation initiation factor 3 subunit [Arabidopsis thaliana]		
Seq. No.	21354	Seq. ID	OJ991027_09.0207.C4
Gene No.	44630	Strand	-
Start	876	End	1641
Name	OJ991027_09.0207.C4.o1.np	Method	AAT/NAP
Start	876	End	1641
GI	4680183	Score	197
Exons	876..965, 1573..1641		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		
Seq. No.	21354	Seq. ID	OJ991027_09.0207.C4
Gene No.	44631	Strand	-
Start	3349	End	5771
Name	OJ991027_09.0207.C4.o2.gs	Method	GENSCAN
Start	3349	End	3925
GI	none	Score	.59
Exons	3349..3499, 3600..3925		
Seq. No.	21354	Seq. ID	OJ991027_09.0207.C4
Gene No.	44631	Strand	-
Start	3349	End	5771
Name	OJ991027_09.0207.C4.o2.np	Method	AAT/NAP
Start	3475	End	5771
GI	6498436	Score	300
Exons	3475..3939, 5733..5771		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		
Seq. No.	21354	Seq. ID	OJ991027_09.0207.C4
Gene No.	44632	Strand	-
Start	8485	End	11581
Name	OJ991027_09.0207.C4.o1.tm	Method	TBLASTX:Maize
Start	4091	End	4546
GI	none	Score	277
Exons	4091..4309, 4092..4463, 4395..4463, 4481..4546, 4482..4541		
Seq. No.	21354	Seq. ID	OJ991027_09.0207.C4
Gene No.	44632	Strand	-
Start	8485	End	11581
Name	OJ991027_09.0207.C4.o1.tw	Method	TBLASTX:Wheat
Start	4287	End	4601

GI	none	Score	214
Exons	4287..4538, 4296..4538, 4378..4539, 4545..4601		
Seq. No.	21354	Seq. ID	OJ991027_09.0207.C4
Gene No.	44632	Strand	-
Start	8485	End	11581
Name	OJ991027_09.0207.C4.o2.tm	Method	TBLASTX:Maize
Start	4718	End	5011
GI	none	Score	182
Exons	4718..4915, 4726..4830, 4910..5011, 4931..5008		
Seq. No.	21354	Seq. ID	OJ991027_09.0207.C4
Gene No.	44632	Strand	-
Start	8485	End	11581
Name	OJ991027_09.0207.C4.o4.gs	Method	GENSCAN
Start	8485	End	11581
GI	none	Score	.96
Exons	8485..8993, 11426..11581		
Seq. No.	21354	Seq. ID	OJ991027_09.0207.C4
Gene No.	44632	Strand	-
Start	8485	End	11581
Name	OJ991027_09.0207.C4.o4.np	Method	AAT/NAP
Start	8488	End	10372
GI	6006879	Score	92
Exons	8488..8936, 10322..10372		
GI Descrip.	(AC008153) putative eukaryotic translation initiation factor 3 subunit [Arabidopsis thaliana]		
Seq. No.	21355	Seq. ID	OJ991027_09.0207.C5
Gene No.	44633	Strand	+
Start	243	End	754
Name	OJ991027_09.0207.C5.o1.gs	Method	GENSCAN
Start	243	End	754
GI	none	Score	.49
Exons	243..464, 571..754		
Seq. No.	21355	Seq. ID	OJ991027_09.0207.C5
Gene No.	44634	Strand	+
Start	944	End	2288
Name	OJ991027_09.0207.C5.o1.np	Method	AAT/NAP
Start	944	End	2288
GI	6630699	Score	95
Exons	944..989, 2205..2288		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi 6721536 dbj BAA89566.1  (AP001073) hypothetical protein [Oryza sativa]		
Seq. No.	21355	Seq. ID	OJ991027_09.0207.C5
Gene No.	44635	Strand	+
Start	6566	End	6644
Name	OJ991027_09.0207.C5.o3.np	Method	AAT/NAP
Start	6566	End	6644
GI	6630699	Score	96
Exons	6566..6644		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi 6721536 dbj BAA89566.1  (AP001073) hypothetical protein		

[Oryza sativa]

Seq. No.	21355	Seq. ID	OJ991027_09.0207.C5
Gene No.	44636	Strand	+
Start	6780	End	7201
Name	OJ991027_09.0207.C5.o4.np	Method	AAT/NAP
Start	6780	End	7201
GI	6539570	Score	201
Exons	6780..6972, 7131..7201		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	21355	Seq. ID	OJ991027_09.0207.C5
Gene No.	44637	Strand	-
Start	2168	End	6359
Name	OJ991027_09.0207.C5.o2.gs	Method	GENSCAN
Start	2168	End	5875
GI	none	Score	.71
Exons	2168..2265, 2682..2820, 3016..3091, 3145..3314, 3667..3880, 3983..4103, 4338..4570, 5787..5875		

Seq. No.	21355	Seq. ID	OJ991027_09.0207.C5
Gene No.	44637	Strand	-
Start	2168	End	6359
Name	OJ991027_09.0207.C5.o2.np	Method	AAT/NAP
Start	2427	End	6359
GI	5922620	Score	236
Exons	2427..2541, 3939..4020, 4128..4326, 4376..4515, 6288..6359		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6016853 dbj BAA85196.1  (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	21355	Seq. ID	OJ991027_09.0207.C5
Gene No.	44638	Strand	-
Start	6552	End	6985
Name	OJ991027_09.0207.C5.o1.gp	Method	AAT/GAP
Start	6552	End	6985
GI	LIB3479-006-Q6-K1-B11	Score	596
Exons	6552..6985		
GI Descrip.	'5734616/dbj AP000391.1 AP000391 1.0e-110 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	21356	Seq. ID	OJ991027_09.0207.C6
Gene No.	44639	Strand	+
Start	99	End	514
Name	OJ991027_09.0207.C6.o1.gs	Method	GENSCAN
Start	99	End	514
GI	none	Score	.65
Exons	99..162, 273..396, 448..514		

Seq. No.	21356	Seq. ID	OJ991027_09.0207.C6
Gene No.	44640	Strand	+
Start	12929	End	15776
Name	OJ991027_09.0207.C6.o6.np	Method	AAT/NAP
Start	12929	End	15776
GI	5042463	Score	111

Exons 12929..12990, 14145..14372, 15729..15776  
 GI Descrip. (AC007789) unknown protein [Oryza sativa]

Seq. No.	21356	Seq. ID	OJ991027_09.0207.C6
Gene No.	44641	Strand	-
Start	10461	End	13430
Name	OJ991027_09.0207.C6.o4.tm	Method	TBLASTX:Maize
Start	1534	End	1768
GI	none	Score	65
Exons	1534..1767, 1535..1636, 1579..1767, 1661..1768		

Seq. No.	21356	Seq. ID	OJ991027_09.0207.C6
Gene No.	44641	Strand	-
Start	10461	End	13430
Name	OJ991027_09.0207.C6.o4.tw	Method	TBLASTX:Wheat
Start	1844	End	2211
GI	none	Score	148
Exons	1844..2098, 1846..1947, 2020..2211		

Seq. No.	21356	Seq. ID	OJ991027_09.0207.C6
Gene No.	44641	Strand	-
Start	10461	End	13430
Name	OJ991027_09.0207.C6.o3.tm	Method	TBLASTX:Maize
Start	1940	End	2409
GI	none	Score	62
Exons	1940..2026, 2038..2409		

Seq. No.	21356	Seq. ID	OJ991027_09.0207.C6
Gene No.	44641	Strand	-
Start	10461	End	13430
Name	OJ991027_09.0207.C6.o5.tw	Method	TBLASTX:Wheat
Start	2308	End	2859
GI	none	Score	111
Exons	2308..2406, 2416..2490, 2497..2679, 2504..2815, 2749..2859		

Seq. No.	21356	Seq. ID	OJ991027_09.0207.C6
Gene No.	44641	Strand	-
Start	10461	End	13430
Name	OJ991027_09.0207.C6.o1.tm	Method	TBLASTX:Maize
Start	2615	End	3570
GI	none	Score	94
Exons	2615..2890, 2749..3570, 2951..3553		

Seq. No.	21356	Seq. ID	OJ991027_09.0207.C6
Gene No.	44641	Strand	-
Start	10461	End	13430
Name	OJ991027_09.0207.C6.o2.tw	Method	TBLASTX:Wheat
Start	3214	End	3522
GI	none	Score	140
Exons	3214..3522, 3248..3502		

Seq. No.	21356	Seq. ID	OJ991027_09.0207.C6
Gene No.	44641	Strand	-
Start	10461	End	13430
Name	OJ991027_09.0207.C6.o2.tm	Method	TBLASTX:Maize
Start	3714	End	4496
GI	none	Score	61

Exons 3714..3791, 3715..3774, 3768..3950, 3880..4014, 3933..4346, 4356..4439, 4455..4496

Seq. No.	21356	Seq. ID	OJ991027_09.0207.C6
Gene No.	44641	Strand	-
Start	10461	End	13430
Name	OJ991027_09.0207.C6.o1.tw	Method	TBLASTX:Wheat
Start	3852	End	4277
GI	none	Score	112
Exons	3852..4277, 3853..4035, 3858..4073, 4051..4119		

Seq. No.	21356	Seq. ID	OJ991027_09.0207.C6
Gene No.	44641	Strand	-
Start	10461	End	13430
Name	OJ991027_09.0207.C6.o3.tw	Method	TBLASTX:Wheat
Start	4492	End	4845
GI	none	Score	147
Exons	4492..4710, 4500..4730, 4500..4721, 4701..4844, 4723..4845		

Seq. No.	21356	Seq. ID	OJ991027_09.0207.C6
Gene No.	44641	Strand	-
Start	10461	End	13430
Name	OJ991027_09.0207.C6.o5.np	Method	AAT/NAP
Start	10461	End	13430
GI	6498436	Score	454
Exons	10461..10579, 10844..11127, 11153..11189, 13376..13430		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	21357	Seq. ID	OJ991027_09.0207.C7
Gene No.	44642	Strand	-
Start	31	End	105
Name	OJ991027_09.0207.C7.o1.gs	Method	GENSCAN
Start	31	End	105
GI	none	Score	.44
Exons	31..105		

Seq. No.	21358	Seq. ID	OJ991027_09.0207.C9
Gene No.	44643	Strand	-
Start	9581	End	13596
Name	OJ991027_09.0207.C9.o2.gs	Method	GENSCAN
Start	9581	End	13596
GI	none	Score	.51
Exons	9581..9955, 10018..10069, 13478..13596		

Seq. No.	21358	Seq. ID	OJ991027_09.0207.C9
Gene No.	44644	Strand	-
Start	15174	End	16844
Name	OJ991027_09.0207.C9.o3.tm	Method	TBLASTX:Maize
Start	3510	End	4030
GI	none	Score	69
Exons	3510..3608, 3512..3610, 3524..3640, 3599..3712, 3661..3711, 3708..3812, 3727..3825, 3812..4030, 3815..4027		

Seq. No.	21358	Seq. ID	OJ991027_09.0207.C9
Gene No.	44644	Strand	-
Start	15174	End	16844
Name	OJ991027_09.0207.C9.o2.tm	Method	TBLASTX:Maize



Start	5019	End	5442
GI	none	Score	261
Exons	5019..5240, 5020..5268, 5020..5268, 5257..5331, 5268..5330, 5275..5442, 5331..5441		

Seq. No.	21358	Seq. ID	OJ991027_09.0207.C9
Gene No.	44644	Strand	-
Start	15174	End	16844
Name	OJ991027_09.0207.C9.o2.tw	Method	TBLASTX:Wheat
Start	5071	End	5388
GI	none	Score	322
Exons	5071..5385, 5076..5372, 5113..5388		

Seq. No.	21358	Seq. ID	OJ991027_09.0207.C9
Gene No.	44644	Strand	-
Start	15174	End	16844
Name	OJ991027_09.0207.C9.o1.gp	Method	AAT/GAP
Start	14972	End	16776
GI	10762_1.R1084	Score	2276
Exons	14972..15581, 15672..16070, 16600..16776		
GI Descrip.	'1928991 1.0e-125 (U92815) heat shock protein 70 precursor [Citruillus lanatus]'		

Seq. No.	21358	Seq. ID	OJ991027_09.0207.C9
Gene No.	44644	Strand	-
Start	15174	End	16844
Name	OJ991027_09.0207.C9.o3.tw	Method	TBLASTX:Wheat
Start	15095	End	15460
GI	none	Score	35
Exons	15095..15121, 15102..15119, 15159..15221, 15162..15230, 15295..15393, 15297..15389, 15297..15455, 15298..15456, 15434..15460		

Seq. No.	21358	Seq. ID	OJ991027_09.0207.C9
Gene No.	44644	Strand	-
Start	15174	End	16844
Name	OJ991027_09.0207.C9.o2.ts	Method	TBLASTX:Soybean
Start	15155	End	15449
GI	none	Score	50
Exons	15155..15208, 15160..15207, 15168..15221, 15253..15363, 15300..15449, 15301..15447		

Seq. No.	21358	Seq. ID	OJ991027_09.0207.C9
Gene No.	44644	Strand	-
Start	15174	End	16844
Name	OJ991027_09.0207.C9.o1.tm	Method	TBLASTX:Maize
Start	15172	End	16803
GI	none	Score	42
Exons	15172..15207, 15174..15221, 15209..15382, 15216..15527, 15298..15504, 15437..15556, 15454..15555, 15530..15574, 15566..15583, 15566..15583, 15669..16073, 15670..16074, 16599..16727, 16599..16796, 16600..16800, 16603..16803		

Seq. No.	21358	Seq. ID	OJ991027_09.0207.C9
Gene No.	44644	Strand	-
Start	15174	End	16844
Name	OJ991027_09.0207.C9.o3.gs	Method	GENSCAN

Start	15174	End	16789
GI	none	Score	1
Exons	15174..15581, 15672..16070, 16600..16789		

Seq. No.	21358	Seq. ID	OJ991027_09.0207.C9
Gene No.	44644	Strand	-
Start	15174	End	16844
Name	OJ991027_09.0207.C9.o1.np	Method	AAT/NAP
Start	15177	End	16844
GI	6670931	Score	1377
Exons	15177..15581, 15672..16070, 16600..16844		
GI Descrip.	(AF074969) heat shock protein 70 [Triticum aestivum]		

Seq. No.	21358	Seq. ID	OJ991027_09.0207.C9
Gene No.	44644	Strand	-
Start	15174	End	16844
Name	OJ991027_09.0207.C9.o1.tc	Method	TBLASTX:Cress
Start	15396	End	16800
GI	none	Score	127
Exons	15396..15584, 15400..15504, 15464..15583, 15669..16073, 15670..16071, 15670..16077, 16593..16727, 16600..16800, 16658..16792		

Seq. No.	21358	Seq. ID	OJ991027_09.0207.C9
Gene No.	44644	Strand	-
Start	15174	End	16844
Name	OJ991027_09.0207.C9.o1.tw	Method	TBLASTX:Wheat
Start	15460	End	15879
GI	none	Score	152
Exons	15460..15582, 15461..15583, 15462..15584, 15524..15598, 15669..15878, 15670..15879, 15670..15879		

Seq. No.	21358	Seq. ID	OJ991027_09.0207.C9
Gene No.	44644	Strand	-
Start	15174	End	16844
Name	OJ991027_09.0207.C9.o1.ts	Method	TBLASTX:Soybean
Start	15472	End	16800
GI	none	Score	287
Exons	15472..15573, 15669..16073, 15703..16068, 16600..16800, 16658..16771		

Seq. No.	21358	Seq. ID	OJ991027_09.0207.C9
Gene No.	44644	Strand	-
Start	15174	End	16844
Name	OJ991027_09.0207.C9.o4.tw	Method	TBLASTX:Wheat
Start	15885	End	16777
GI	none	Score	139
Exons	15885..16049, 15886..16050, 16594..16731, 16672..16776, 16688..16777		

Seq. No.	21359	Seq. ID	OJ991027_09.0207.C10
Gene No.	44645	Strand	-
Start	1	End	2988
Name	OJ991027_09.0207.C10.o1.gp	Method	AAT/GAP
Start	1	End	1607
GI	uC-osroM202001a09b1	Score	752
Exons	1..116, 694..773, 1404..1607		

GI Descrip. '399942/sp|Q02028|HS7S\_PEA 4.0e-48 CHLOROPLAST STROMA 70 KD HEAT SHOCK-RELATED PROTEIN PRECURSOR >gi\_421881\_pir\_S32818 heat shock protein, 70K, chloroplast - garden pea >gi\_169023 (L03299) 70 kDa heat shock protein [Pisum sativum] >gi\_871515\_emb|CAA49147\_ (X69213) Psst70 (stress 70 protein) [Pisum sativum]'

Seq. No.	21359	Seq. ID	OJ991027_09.0207.C10
Gene No.	44645	Strand	-
Start	1	End	2988
Name	OJ991027_09.0207.C10.o1.np	Method	AAT/NAP
Start	1	End	2988
GI	399942	Score	1174
Exons	1..116, 694..773, 1404..1656, 2426..2988		

GI Descrip. CHLOROPLAST STROMA 70 KD HEAT SHOCK-RELATED PROTEIN PRECURSOR gi|421881|pir||S32818 heat shock protein, 70K, chloroplast - garden pea gi|169023 (L03299) 70 kDa heat shock protein [Pisum sativum] gi|871515|emb|CAA49147| (X69213) Psst70 (stress 70 protein) [Pisum sativum]

Seq. No.	21359	Seq. ID	OJ991027_09.0207.C10
Gene No.	44645	Strand	-
Start	1	End	2988
Name	OJ991027_09.0207.C10.o1.tm	Method	TBLASTX:Maize
Start	1	End	2885
GI	none	Score	173
Exons	1..117, 3..119, 6..119, 694..780, 696..779, 1404..1577, 1404..1574, 1405..1659, 1406..1657, 1617..1658, 2400..2807, 2423..2794, 2847..2885		

Seq. No.	21359	Seq. ID	OJ991027_09.0207.C10
Gene No.	44645	Strand	-
Start	1	End	2988
Name	OJ991027_09.0207.C10.o1.gs	Method	GENSCAN
Start	694	End	2923
GI	none	Score	.91
Exons	694..773, 1404..1656, 2426..2923		

Seq. No.	21359	Seq. ID	OJ991027_09.0207.C10
Gene No.	44645	Strand	-
Start	1	End	2988
Name	OJ991027_09.0207.C10.o1.ts	Method	TBLASTX:Soybean
Start	694	End	2771
GI	none	Score	63
Exons	694..780, 1405..1467, 1409..1447, 1421..1639, 1450..1656, 2543..2641, 2645..2770, 2658..2771		

Seq. No.	21359	Seq. ID	OJ991027_09.0207.C10
Gene No.	44645	Strand	-
Start	1	End	2988
Name	OJ991027_09.0207.C10.o1.tw	Method	TBLASTX:Wheat
Start	695	End	2831
GI	none	Score	74
Exons	695..751, 696..764, 697..780, 1405..1452, 1406..1438, 1459..1656, 1460..1657, 2423..2458, 2528..2641, 2637..2765, 2637..2696, 2645..2767, 2793..2831		

Seq. No.	21359	Seq. ID	OJ991027_09.0207.C10
Gene No.	44645	Strand	-
Start	1	End	2988
Name	OJ991027_09.0207.C10.o1.tc	Method	TBLASTX:Cress
Start	696	End	2795
GI	none	Score	71
Exons	696..779, 697..780, 697..780, 1404..1646, 1404..1574, 1405..1659, 1406..1657, 2397..2795, 2423..2794		

Seq. No.	21359	Seq. ID	OJ991027_09.0207.C10
Gene No.	44645	Strand	-
Start	1	End	2988
Name	OJ991027_09.0207.C10.o2.gp	Method	AAT/GAP
Start	2462	End	2790
GI	5005162	Score	649
Exons	2462..2790		
GI Descrip.	399942/sp Q02028 HS7S_PEA 4.0e-48 CHLOROPLAST STROMA 70 KD HEAT SHOCK-RELATED PROTEIN-PRECURSOR >gi_421881_pir_S32818 heat shock protein, 70K, chloroplast - garden pea >gi_169023 (L03299) 70 kDa heat shock protein [Pisum sativum] >gi_871515_emb_CAA49147_ (X69213) Psst70 (stress 70 protein) [Pisum sativum]		

Seq. No.	21360	Seq. ID	OJ991027_09.0207.C11
Gene No.	44646	Strand	+
Start	583	End	684
Name	OJ991027_09.0207.C11.o1.gs	Method	GENSCAN
Start	583	End	684
GI	none	Score	.66
Exons	583..684		

Seq. No.	21360	Seq. ID	OJ991027_09.0207.C11
Gene No.	44647	Strand	+
Start	3648	End	10792
Name	OJ991027_09.0207.C11.o1.np	Method	AAT/NAP
Start	3648	End	7189
GI	3023947	Score	169
Exons	3648..3674, 4933..5091, 7156..7189		
GI Descrip.	PROBABLE HISTONE DEACETYLASE (RPD3 HOMOLOG) gi 2665840 (AF035815) putative histone deacetylase RPD3 [Zea mays]		

Seq. No.	21360	Seq. ID	OJ991027_09.0207.C11
Gene No.	44647	Strand	+
Start	3648	End	10792
Name	OJ991027_09.0207.C11.o2.np	Method	AAT/NAP
Start	5460	End	7494
GI	4102839	Score	41
Exons	5460..5595, 6579..6646, 7393..7494		
GI Descrip.	(AF016713) LeOPT1 [Lycopersicon esculentum]		

Seq. No.	21360	Seq. ID	OJ991027_09.0207.C11
Gene No.	44647	Strand	+
Start	3648	End	10792
Name	OJ991027_09.0207.C11.o1.gp	Method	AAT/GAP
Start	6020	End	9462
GI	7430_1.R1084	Score	2962
Exons	6020..6129, 7775..8262, 8335..8706, 8915..9462		

GI Descrip. '399015/sp|P31691|ADT\_ORYSA 1.0e-145 ADP,ATP CARRIER PROTEIN  
 PRECURSOR (ADP/ATP TRANSLOCASE) (ADENINE NUCLEOTIDE  
 TRANSLOCATOR) (ANT) >gi\_218145\_dbj\_BAA02161\_ (D12637) ATP/ADP  
 translocator [Oryza sativa]'

Seq. No.	21360	Seq. ID	OJ991027_09.0207.C11
Gene No.	44647	Strand	+
Start	3648	End	10792
Name	OJ991027_09.0207.C11.o3.gs	Method	GENSCAN
Start	7789	End	10792
GI	none	Score	.77
Exons	7789..8262, 8335..8706, 8915..9182, 10464..10792		

Seq. No.	21360	Seq. ID	OJ991027_09.0207.C11
Gene No.	44647	Strand	+
Start	3648	End	10792
Name	OJ991027_09.0207.C11.o3.np	Method	AAT/NAP
Start	7792	End	9208
GI	2842480	Score	1423
Exons	7792..8262, 8335..8706, 8915..9208		
GI Descrip.	(AL021749) ADP, ATP carrier-like protein [Arabidopsis thaliana]		

Seq. No.	21360	Seq. ID	OJ991027_09.0207.C11
Gene No.	44648	Strand	-
Start	3407	End	6094
Name	OJ991027_09.0207.C11.o2.gs	Method	GENSCAN
Start	3407	End	6094
GI	none	Score	.52
Exons	3407..3559, 3592..3735, 3771..3926, 4744..5197, 5540..5635, 5790..5889, 5989..6094		

Seq. No.	21360	Seq. ID	OJ991027_09.0207.C11
Gene No.	44649	Strand	-
Start	18678	End	19467
Name	OJ991027_09.0207.C11.o3.ts	Method	TBLASTX:Soybean
Start	4932	End	5073
GI	none	Score	217
Exons	4932..5072, 4933..5073		

Seq. No.	21360	Seq. ID	OJ991027_09.0207.C11
Gene No.	44649	Strand	-
Start	18678	End	19467
Name	OJ991027_09.0207.C11.o3.tc	Method	TBLASTX:Cress
Start	4932	End	5073
GI	none	Score	217
Exons	4932..5072, 4933..5073		

Seq. No.	21360	Seq. ID	OJ991027_09.0207.C11
Gene No.	44649	Strand	-
Start	18678	End	19467
Name	OJ991027_09.0207.C11.o1.tm	Method	TBLASTX:Maize
Start	7776	End	9216
GI	none	Score	624
Exons	7776..8258, 7777..8271, 7960..8280, 8114..8281, 8332..8706, 8333..8407, 8333..8707, 8335..8706, 8520..8711, 8871..9101, 8911..9102, 8912..9193, 8941..9192, 9168..9206, 9169..9216		

Seq. No.	21360	Seq. ID	OJ991027_09.0207.C11
Gene No.	44649	Strand	-
Start	18678	End	19467
Name	OJ991027_09.0207.C11.o1.ts	Method	TBLASTX:Soybean
Start	7789	End	9193
GI	none	Score	64
Exons	7789..7866, 7909..8271, 7956..8258, 7975..8277, 8114..8278, 8326..8415, 8327..8407, 8331..8672, 8335..8712, 8458..8712, 8912..9193, 8912..9052, 8913..9098, 8941..9192		

Seq. No.	21360	Seq. ID	OJ991027_09.0207.C11
Gene No.	44649	Strand	-
Start	18678	End	19467
Name	OJ991027_09.0207.C11.o1.tc	Method	TBLASTX:Cress
Start	7971	End	9193
GI	none	Score	421
Exons	7971..8264, 7972..8265, 8291..8407, 8327..8527, 8332..8508, 8529..8672, 8535..8708, 8536..8709, 8536..8712, 8909..9193, 8912..9052, 8941..9192		

Seq. No.	21360	Seq. ID	OJ991027_09.0207.C11
Gene No.	44649	Strand	-
Start	18678	End	19467
Name	OJ991027_09.0207.C11.o3.tw	Method	TBLASTX:Wheat
Start	7974	End	8200
GI	none	Score	134
Exons	7974..8198, 8001..8198, 8002..8199, 8117..8200		

Seq. No.	21360	Seq. ID	OJ991027_09.0207.C11
Gene No.	44649	Strand	-
Start	18678	End	19467
Name	OJ991027_09.0207.C11.o1.tw	Method	TBLASTX:Wheat
Start	8218	End	9193
GI	none	Score	63
Exons	8218..8280, 8220..8264, 8221..8271, 8306..8407, 8329..8472, 8330..8707, 8335..8706, 8535..8708, 8912..9193, 8913..9101, 8941..9192		

Seq. No.	21360	Seq. ID	OJ991027_09.0207.C11
Gene No.	44649	Strand	-
Start	18678	End	19467
Name	OJ991027_09.0207.C11.o2.tc	Method	TBLASTX:Cress
Start	12742	End	13372
GI	none	Score	174
Exons	12742..13113, 12756..13058, 13118..13186, 13119..13187, 13193..13288, 13206..13286, 13343..13372		

Seq. No.	21360	Seq. ID	OJ991027_09.0207.C11
Gene No.	44649	Strand	-
Start	18678	End	19467
Name	OJ991027_09.0207.C11.o2.ts	Method	TBLASTX:Soybean
Start	12748	End	13059
GI	none	Score	155
Exons	12748..13059, 12756..13058		

Seq. No.	21360	Seq. ID	OJ991027_09.0207.C11
Gene No.	44649	Strand	-

Start	18678	End	19467
Name	OJ991027_09.0207.C11.o4.np	Method	AAT/NAP
Start	18678	End	19467
GI	4585985	Score	263
Exons	18678..19467		
GI Descrip.	(AC005287) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	21360	Seq. ID	OJ991027_09.0207.C11
Gene No.	44649	Strand	-
Start	18678	End	19467
Name	OJ991027_09.0207.C11.o2.tm	Method	TBLASTX:Maize
Start	18892	End	19250
GI	none	Score	106
Exons	18892..19080, 18892..19083, 18893..19084, 19078..19161, 19079..19144, 19140..19250, 19156..19242		

Seq. No.	21360	Seq. ID	OJ991027_09.0207.C11
Gene No.	44649	Strand	-
Start	18678	End	19467
Name	OJ991027_09.0207.C11.o2.tw	Method	TBLASTX:Wheat
Start	19090	End	19466
GI	none	Score	61
Exons	19090..19161, 19091..19165, 19140..19250, 19141..19242, 19250..19312, 19255..19326, 19318..19401, 19319..19402, 19398..19466		

Seq. No.	21361	Seq. ID	OJ991027_09.0207.C12
Gene No.	44650	Strand	+
Start	1	End	759
Name	OJ991027_09.0207.C12.o1.np	Method	AAT/NAP
Start	1	End	687
GI	6862956	Score	394
Exons	1..687		
GI Descrip.	(AC019018) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	21361	Seq. ID	OJ991027_09.0207.C12
Gene No.	44650	Strand	+
Start	1	End	759
Name	OJ991027_09.0207.C12.o1.gs	Method	GENSCAN
Start	70	End	759
GI	none	Score	.72
Exons	70..451, 599..759		

Seq. No.	21361	Seq. ID	OJ991027_09.0207.C12
Gene No.	44651	Strand	+
Start	3226	End	3665
Name	OJ991027_09.0207.C12.o2.gs	Method	GENSCAN
Start	3226	End	3665
GI	none	Score	.45
Exons	3226..3279, 3639..3665		

Seq. No.	21361	Seq. ID	OJ991027_09.0207.C12
Gene No.	44652	Strand	+
Start	4097	End	5780
Name	OJ991027_09.0207.C12.o2.np	Method	AAT/NAP
Start	4097	End	5441
GI	6630699	Score	87

Exons 4097..4154, 5361..5441  
 GI Descrip. (AP000969) hypothetical protein [Oryza sativa]  
 gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein  
 [Oryza sativa]

Seq. No. 21361 Seq. ID OJ991027\_09.0207.C12  
 Gene No. 44652 Strand +  
 Start 4097 End 5780  
 Name OJ991027\_09.0207.C12.o3.gs Method GENSCAN  
 Start 4457 End 5780  
 GI none Score .54  
 Exons 4457..4553, 4965..5177, 5624..5780

Seq. No. 21361 Seq. ID OJ991027\_09.0207.C12  
 Gene No. 44653 Strand -  
 Start 5581 End 5721  
 Name OJ991027\_09.0207.C12.o1.tw Method TBLASTX:Wheat  
 Start 1 End 384  
 GI none Score 131  
 Exons 1..147, 5..127, 21..152, 148..384, 160..378, 170..379, 267..383

Seq. No. 21361 Seq. ID OJ991027\_09.0207.C12  
 Gene No. 44653 Strand -  
 Start 5581 End 5721  
 Name OJ991027\_09.0207.C12.o1.tm Method TBLASTX:Maize  
 Start 223 End 576  
 GI none Score 491  
 Exons 223..576, 236..508, 267..575

Seq. No. 21361 Seq. ID OJ991027\_09.0207.C12  
 Gene No. 44653 Strand -  
 Start 5581 End 5721  
 Name OJ991027\_09.0207.C12.o3.np Method AAT/NAP  
 Start 5581 End 5721  
 GI 5922620 Score 175  
 Exons 5581..5721

GI Descrip. (AP000492) EST D15357(C0514) corresponds to a region of the  
 predicted gene.; hypothetical protein [Oryza sativa]  
 gi|6016853|dbj|BAA85196.1| (AP000570) EST D15357(C0514)  
 corresponds to a region of the predicted gene.; hypothetical  
 protein [Oryza sativa]

Seq. No. 21362 Seq. ID OJ991027\_09.0207.C13  
 Gene No. 44654 Strand +  
 Start 1944 End 4309  
 Name OJ991027\_09.0207.C13.o1.np Method AAT/NAP  
 Start 1944 End 3351  
 GI 6721512 Score 56  
 Exons 1944..2052, 3318..3351  
 GI Descrip. (AP001072) hypothetical protein [Oryza sativa]

Seq. No. 21362 Seq. ID OJ991027\_09.0207.C13  
 Gene No. 44654 Strand +  
 Start 1944 End 4309  
 Name OJ991027\_09.0207.C13.o1.gs Method GENSCAN  
 Start 1987 End 2947  
 GI none Score .56



Exons 1987..2178, 2351..2429, 2452..2471, 2879..2947

Seq. No. 21362 Seq. ID OJ991027\_09.0207.C13  
Gene No. 44654 Strand +  
Start 1944 End 4309  
Name OJ991027\_09.0207.C13.o2.np Method AAT/NAP  
Start 2325 End 4309  
GI 5139348 Score 144  
Exons 2325..2471, 2861..2969, 3106..3178, 3729..3864, 4079..4309  
GI Descrip. (AJ007046) [acyl-carrier protein] S-malonyltransferase [Brassica napus]

Seq. No. 21363 Seq. ID OJ991217\_08.0202.C2  
Gene No. 44655 Strand -  
Start 548 End 634  
Name OJ991217\_08.0202.C2.o1.gs Method GENSCAN  
Start 548 End 634  
GI none Score .63  
Exons 548..634

Seq. No. 21364 Seq. ID OJ991217\_08.0202.C3  
Gene No. 44656 Strand +  
Start 2336 End 6884  
Name OJ991217\_08.0202.C3.o2.gs Method GENSCAN  
Start 2336 End 6755  
GI none Score .87  
Exons 2336..2420, 2426..2730, 2850..2949, 4006..4220, 4381..4464, 5649..5702, 6558..6755

Seq. No. 21364 Seq. ID OJ991217\_08.0202.C3  
Gene No. 44656 Strand +  
Start 2336 End 6884  
Name OJ991217\_08.0202.C3.o1.np Method AAT/NAP  
Start 2632 End 6740  
GI 4115936 Score 916  
Exons 2632..2730, 2850..2949, 4006..4220, 4381..4464, 5649..5702, 6558..6740

GI Descrip. (AF118223) No definition line found [Arabidopsis thaliana]

Seq. No. 21364 Seq. ID OJ991217\_08.0202.C3  
Gene No. 44656 Strand +  
Start 2336 End 6884  
Name OJ991217\_08.0202.C3.o1.gp Method AAT/GAP  
Start 4405 End 6884  
GI uC-osflcyp112c08a1 Score 801  
Exons 4405..4464, 5649..5702, 6558..6884  
GI Descrip. '4115936/gb|AAD03446.1| 1.0e-32 (AF118223) No definition line found [Arabidopsis thaliana]'

Seq. No. 21364 Seq. ID OJ991217\_08.0202.C3  
Gene No. 44657 Strand +  
Start 7901 End 9211  
Name OJ991217\_08.0202.C3.o2.np Method AAT/NAP  
Start 7901 End 9211  
GI 2809252 Score 967  
Exons 7901..9211  
GI Descrip. (AC002560) F21B7.21 [Arabidopsis thaliana]

Seq. No. 21364  
Gene No. 44658  
Start 12611  
Name OJ991217\_08.0202.C3.o2.gp  
Start 12611  
GI none  
Exons 12611..12742, 12858..13127

Seq. ID OJ991217\_08.0202.C3  
Strand +  
End 13127  
Method AAT/GAP  
End 13127  
Score 752

Seq. No. 21364  
Gene No. 44659  
Start 17  
Name OJ991217\_08.0202.C3.o1.gs  
Start 17  
GI none  
Exons 17..339, 426..599

Seq. ID OJ991217\_08.0202.C3  
Strand -  
End 599  
Method GENSCAN  
End 599  
Score .83

Seq. No. 21364  
Gene No. 44660  
Start 13699  
Name OJ991217\_08.0202.C3.o2.tm  
Start 2568  
GI none  
Exons 2568..2729, 2569..2733, 2788..2952, 2841..2948, 2847..2963, 4004..4240, 4007..4240, 4038..4241, 4150..4248, 4342..4467, 4376..4465, 5648..5698, 5649..5702, 5650..5703, 6509..6679, 6538..6756, 6557..6658, 6558..6755, 6558..6770, 6680..6760, 6767..6862, 6770..6862, 6772..6864, 6850..6942, 6872..6892

Seq. ID OJ991217\_08.0202.C3  
Strand -  
End 13953  
Method TBLASTX:Maize  
End 6942  
Score 203

Seq. No. 21364  
Gene No. 44660  
Start 13699  
Name OJ991217\_08.0202.C3.o1.tw  
Start 2583  
GI none  
Exons 2583..2729, 2632..2733, 2841..2960, 2847..2963, 4004..4240, 4038..4241, 4147..4254, 4342..4440, 4350..4421, 4376..4441, 4382..4441

Seq. ID OJ991217\_08.0202.C3  
Strand -  
End 13953  
Method TBLASTX:Wheat  
End 4441  
Score 169

Seq. No. 21364  
Gene No. 44660  
Start 13699  
Name OJ991217\_08.0202.C3.o2.tc  
Start 2631  
GI none  
Exons 2631..2729, 2632..2733, 2847..2963, 2847..2948, 4004..4240, 4006..4080, 4038..4223, 4153..4248, 4342..4467, 4381..4467

Seq. ID OJ991217\_08.0202.C3  
Strand -  
End 13953  
Method TBLASTX:Cress  
End 4467  
Score 165

Seq. No. 21364  
Gene No. 44660  
Start 13699  
Name OJ991217\_08.0202.C3.o2.ts  
Start 2631  
GI none  
Exons 2631..2729, 2632..2733, 2841..2960, 2850..2963, 4004..4240, 4009..4074, 4038..4223, 4153..4254, 4308..4334, 4341..4421, 4342..4467, 4381..4455, 5649..5702, 6554..6658, 6557..6679,

Seq. ID OJ991217\_08.0202.C3  
Strand -  
End 13953  
Method TBLASTX:Soybean  
End 6707  
Score 160

6558..6695, 6642..6707

Seq. No.	21364	Seq. ID	OJ991217_08.0202.C3
Gene No.	44660	Strand	-
Start	13699	End	13953
Name	OJ991217_08.0202.C3.o1.tc	Method	TBLASTX:Cress
Start	8150	End	8869
GI	none	Score	68
Exons	8150..8290, 8411..8749, 8440..8754, 8486..8761, 8621..8815, 8756..8869		

Seq. No.	21364	Seq. ID	OJ991217_08.0202.C3
Gene No.	44660	Strand	-
Start	13699	End	13953
Name	OJ991217_08.0202.C3.o1.tm	Method	TBLASTX:Maize
Start	8174	End	9196
GI	none	Score	88
Exons	8174..8308, 8420..8554, 8440..8754, 8456..8776, 8456..9196, 8554..9186, 8585..8746		

Seq. No.	21364	Seq. ID	OJ991217_08.0202.C3
Gene No.	44660	Strand	-
Start	13699	End	13953
Name	OJ991217_08.0202.C3.o2.tw	Method	TBLASTX:Wheat
Start	8417	End	8890
GI	none	Score	256
Exons	8417..8890		

Seq. No.	21364	Seq. ID	OJ991217_08.0202.C3
Gene No.	44660	Strand	-
Start	13699	End	13953
Name	OJ991217_08.0202.C3.o1.ts	Method	TBLASTX:Soybean
Start	8768	End	9199
GI	none	Score	336
Exons	8768..9199, 8785..9198		

Seq. No.	21364	Seq. ID	OJ991217_08.0202.C3
Gene No.	44660	Strand	-
Start	13699	End	13953
Name	OJ991217_08.0202.C3.o3.tc	Method	TBLASTX:Cress
Start	8885	End	9193
GI	none	Score	199
Exons	8885..9193, 8887..9186		

Seq. No.	21364	Seq. ID	OJ991217_08.0202.C3
Gene No.	44660	Strand	-
Start	13699	End	13953
Name	OJ991217_08.0202.C3.o3.ts	Method	TBLASTX:Soybean
Start	12524	End	12660
GI	none	Score	190
Exons	12524..12649, 12544..12660		

Seq. No.	21364	Seq. ID	OJ991217_08.0202.C3
Gene No.	44660	Strand	-
Start	13699	End	13953
Name	OJ991217_08.0202.C3.o3.tm	Method	TBLASTX:Maize
Start	12527	End	12920

GI	none	Score	268
Exons	12527..12721, 12528..12668, 12529..12714, 12624..12728, 12847..12897, 12891..12920		

Seq. No.	21364	Seq. ID	OJ991217_08.0202.C3
Gene No.	44660	Strand	-
Start	13699	End	13953
Name	OJ991217_08.0202.C3.o4.gs	Method	GENSCAN
Start	13699	End	13953
GI	none	Score	.5
Exons	13699..13953		

Seq. No.	21365	Seq. ID	OJ991217_08.0202.C4
Gene No.	44661	Strand	+
Start	1	End	3260
Name	OJ991217_08.0202.C4.o1.np	Method	AAT/NAP
Start	1	End	3260
GI	4432864	Score	674
Exons	1..45, 1562..1699, 1794..1927, 2311..2456, 2626..2705, 2990..3260		

GI Descrip. (AC006300) hypothetical protein [Arabidopsis thaliana]

Seq. No.	21365	Seq. ID	OJ991217_08.0202.C4
Gene No.	44661	Strand	+
Start	1	End	3260
Name	OJ991217_08.0202.C4.o1.gp	Method	AAT/GAP
Start	1087	End	3105
GI	14557_1.R1084	Score	1472
Exons	1087..1287, 1563..1699, 1794..1927, 2311..2456, 2626..2705, 2990..3105		

GI Descrip. '4432864/gb|AAD20712| 2.0e-68 (AC006300) hypothetical protein [Arabidopsis thaliana]'

Seq. No.	21365	Seq. ID	OJ991217_08.0202.C4
Gene No.	44661	Strand	+
Start	1	End	3260
Name	OJ991217_08.0202.C4.o1.gs	Method	GENSCAN
Start	1207	End	3247
GI	none	Score	.83
Exons	1207..1287, 1625..1699, 1794..1927, 2311..2456, 2626..2705, 2990..3247		

Seq. No.	21365	Seq. ID	OJ991217_08.0202.C4
Gene No.	44661	Strand	+
Start	1	End	3260
Name	OJ991217_08.0202.C4.o1.tm	Method	TBLASTX:Maize
Start	1562	End	2350
GI	none	Score	202
Exons	1562..1699, 1562..1699, 1793..1921, 1797..1928, 1809..1931, 1810..1932, 2306..2350		

Seq. No.	21365	Seq. ID	OJ991217_08.0202.C4
Gene No.	44661	Strand	+
Start	1	End	3260
Name	OJ991217_08.0202.C4.o2.tm	Method	TBLASTX:Maize
Start	2350	End	3193
GI	none	Score	180

Exons 2350..2436, 2351..2461, 2351..2455, 2353..2466, 2625..2711, 2628..2705, 2629..2706, 2975..3187, 2981..3097, 2988..3137, 3022..3189, 3137..3193

Seq. No.	21366	Seq. ID	OJ991217_08.0202.C5
Gene No.	44662	Strand	+
Start	1	End	4005
Name	OJ991217_08.0202.C5.o1.np	Method	AAT/NAP
Start	1	End	3789
GI	4432864	Score	787
Exons	1..184, 660..782, 1480..1601, 1673..1742, 1981..2073, 2440..2567, 2696..2837, 3709..3789		
GI Descrip.	(AC006300) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	21366	Seq. ID	OJ991217_08.0202.C5
Gene No.	44662	Strand	+
Start	1	End	4005
Name	OJ991217_08.0202.C5.o1.gp	Method	AAT/GAP
Start	112	End	2048
GI	uC-osflcyp111a08b1	Score	793
Exons	112..184, 660..782, 1480..1601, 1673..1742, 1981..2048		
GI Descrip.	'4432864/gb AAD20712  9.0e-52 (AC006300) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	21366	Seq. ID	OJ991217_08.0202.C5
Gene No.	44662	Strand	+
Start	1	End	4005
Name	OJ991217_08.0202.C5.o1.gs	Method	GENSCAN
Start	660	End	3840
GI	none	Score	.83
Exons	660..782, 1981..2073, 2440..2567, 2696..2837, 3709..3840		

Seq. No.	21366	Seq. ID	OJ991217_08.0202.C5
Gene No.	44662	Strand	+
Start	1	End	4005
Name	OJ991217_08.0202.C5.o2.gp	Method	AAT/GAP
Start	2494	End	4005
GI	38316_1.R1084	Score	969
Exons	2494..2567, 2696..2837, 3709..4005		
GI Descrip.	'4432864/gb AAD20712  6.0e-25 (AC006300) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	21366	Seq. ID	OJ991217_08.0202.C5
Gene No.	44663	Strand	-
Start	4963	End	7545
Name	OJ991217_08.0202.C5.o3.gp	Method	AAT/GAP
Start	4963	End	7545
GI	979_1.R1084	Score	2257
Exons	4963..5306, 5537..5668, 5968..6081, 6907..7545		
GI Descrip.	'2292978/emb CAA71303.1  1.0e-158 (Y10253) pantoate--beta-alanine ligase [Oryza sativa]'		

Seq. No.	21366	Seq. ID	OJ991217_08.0202.C5
Gene No.	44663	Strand	-
Start	4963	End	7545
Name	OJ991217_08.0202.C5.o2.np	Method	AAT/NAP
Start	5187	End	7479

GI 2292978 Score 1385  
 Exons 5187..5306, 5537..5668, 5968..6077, 6904..7479  
 GI Descrip. (Y10253) pantoate--beta-alanine ligase [Oryza sativa]

Seq. No. 21366 Seq. ID OJ991217\_08.0202.C5  
 Gene No. 44664 Strand -  
 Start 8650 End 11224  
 Name OJ991217\_08.0202.C5.o4.tm Method TBLASTX:Maize  
 Start 1977 End 3842  
 GI none Score 91  
 Exons 1977..2036, 1977..2072, 1978..2073, 2437..2565, 2437..2559,  
 2438..2566, 2693..2836, 2693..2836, 2694..2846, 2694..2840,  
 3708..3842, 3709..3768

Seq. No. 21366 Seq. ID OJ991217\_08.0202.C5  
 Gene No. 44664 Strand -  
 Start 8650 End 11224  
 Name OJ991217\_08.0202.C5.o3.tw Method TBLASTX:Wheat  
 Start 2700 End 3786  
 GI none Score 178  
 Exons 2700..2846, 2700..2840, 3709..3768, 3709..3786

Seq. No. 21366 Seq. ID OJ991217\_08.0202.C5  
 Gene No. 44664 Strand -  
 Start 8650 End 11224  
 Name OJ991217\_08.0202.C5.o2.ts Method TBLASTX:Soybean  
 Start 6997 End 7461  
 GI none Score 98  
 Exons 6997..7092, 6998..7102, 7166..7312, 7198..7299, 7291..7461,  
 7423..7458

Seq. No. 21366 Seq. ID OJ991217\_08.0202.C5  
 Gene No. 44664 Strand -  
 Start 8650 End 11224  
 Name OJ991217\_08.0202.C5.o2.tm Method TBLASTX:Maize  
 Start 7027 End 7485  
 GI none Score 105  
 Exons 7027..7113, 7028..7111, 7153..7308, 7163..7309, 7294..7476,  
 7354..7485

Seq. No. 21366 Seq. ID OJ991217\_08.0202.C5  
 Gene No. 44664 Strand -  
 Start 8650 End 11224  
 Name OJ991217\_08.0202.C5.o4.gp Method AAT/GAP  
 Start 8650 End 9881  
 GI 2706\_1.R1084 Score 1216  
 Exons 8650..9018, 9118..9257, 9334..9426, 9814..9881  
 GI Descrip. '549986 2.0e-44 (U13149) possible apospory-associated protein  
 [Pennisetum ciliare]'

Seq. No. 21366 Seq. ID OJ991217\_08.0202.C5  
 Gene No. 44664 Strand -  
 Start 8650 End 11224  
 Name OJ991217\_08.0202.C5.o1.tc Method TBLASTX:Cress  
 Start 8919 End 10486  
 GI none Score 65  
 Exons 8919..9017, 8926..9018, 9117..9266, 9117..9236, 9118..9258,

9138..9266, 9310..9465, 9335..9439, 9790..9852, 9791..9841,  
9943..10005, 9947..9994, 10088..10330, 10114..10341,  
10402..10485, 10415..10486

Seq. No.	21366	Seq. ID	OJ991217_08.0202.C5
Gene No.	44664	Strand	-
Start	8650	End	11224
Name	OJ991217_08.0202.C5.o1.tw	Method	TBLASTX:Wheat
Start	8919	End	9266
GI	none	Score	101
Exons	8919..9011, 8919..9017, 9103..9258, 9117..9266, 9117..9179		

Seq. No.	21366	Seq. ID	OJ991217_08.0202.C5
Gene No.	44664	Strand	-
Start	8650	End	11224
Name	OJ991217_08.0202.C5.o3.tm	Method	TBLASTX:Maize
Start	8919	End	9228
GI	none	Score	83
Exons	8919..9017, 8925..9011, 8926..9018, 9109..9228, 9117..9227, 9117..9227, 9118..9228		

Seq. No.	21366	Seq. ID	OJ991217_08.0202.C5
Gene No.	44664	Strand	-
Start	8650	End	11224
Name	OJ991217_08.0202.C5.o1.ts	Method	TBLASTX:Soybean
Start	8919	End	10495
GI	none	Score	108
Exons	8919..9017, 9109..9258, 9117..9266, 9117..9236, 9138..9266, 9310..9441, 9332..9439, 9790..9852, 9815..9838, 9934..10005, 9947..9997, 10091..10330, 10114..10341, 10399..10494, 10406..10495		

Seq. No.	21366	Seq. ID	OJ991217_08.0202.C5
Gene No.	44664	Strand	-
Start	8650	End	11224
Name	OJ991217_08.0202.C5.o3.np	Method	AAT/NAP
Start	8922	End	11006
GI	5830787	Score	802
Exons	8922..9018, 9118..9257, 9334..9426, 9814..9994, 10100..10485, 10819..11006		
GI Descrip.	(AL117188) ankyrin repeat-containing protein 2 [Arabidopsis thaliana]		

Seq. No.	21366	Seq. ID	OJ991217_08.0202.C5
Gene No.	44664	Strand	-
Start	8650	End	11224
Name	OJ991217_08.0202.C5.o1.tm	Method	TBLASTX:Maize
Start	9228	End	10863
GI	none	Score	39
Exons	9228..9260, 9310..9480, 9334..9444, 9796..9852, 9806..9853, 9940..10005, 9941..9994, 10079..10330, 10114..10344, 10396..10494, 10397..10486, 10819..10863		

Seq. No.	21366	Seq. ID	OJ991217_08.0202.C5
Gene No.	44664	Strand	-
Start	8650	End	11224
Name	OJ991217_08.0202.C5.o2.tw	Method	TBLASTX:Wheat

Start	9814	End	10290
GI	none	Score	57
Exons	9814..9852, 9815..9853, 9946..10005, 9947..9994, 10088..10282, 10114..10290		

Seq. No.	21366	Seq. ID	OJ991217_08.0202.C5
Gene No.	44664	Strand	-
Start	8650	End	11224
Name	OJ991217_08.0202.C5.o5.gp	Method	AAT/GAP
Start	9929	End	11224
GI	7582_1.R1084	Score	1327
Exons	9929..9994, 10100..10485, 10819..10958, 11074..11224		
GI Descrip.	'4205079 2.0e-46 (U70425) ankyrin repeat-containing protein 2 [Arabidopsis thaliana]'		

Seq. No.	21367	Seq. ID	OJ991217_08.0202.C6
Gene No.	44665	Strand	+
Start	5774	End	6124
Name	OJ991217_08.0202.C6.o3.gp	Method	AAT/GAP
Start	5774	End	6124
GI	3762722	Score	650
Exons	5774..6124		

Seq. No.	21367	Seq. ID	OJ991217_08.0202.C6
Gene No.	44666	Strand	+
Start	6070	End	11799
Name	OJ991217_08.0202.C6.o1.np	Method	AAT/NAP
Start	6070	End	11799
GI	4678197	Score	1859
Exons	6070..6122, 7539..8834, 8862..9734, 9913..9954, 10018..11799		
GI Descrip.	(AC007134) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	21367	Seq. ID	OJ991217_08.0202.C6
Gene No.	44667	Strand	+
Start	21015	End	25816
Name	OJ991217_08.0202.C6.o2.np	Method	AAT/NAP
Start	21015	End	25553
GI	6434942	Score	443
Exons	21015..21076, 22225..22458, 23178..23285, 23375..23479, 23583..23639, 23720..23834, 24467..24936, 25022..25071, 25160..25243, 25338..25553		
GI Descrip.	(AF145315) hypothetical 55kDa protein [Drosophila melanogaster]		

Seq. No.	21367	Seq. ID	OJ991217_08.0202.C6
Gene No.	44667	Strand	+
Start	21015	End	25816
Name	OJ991217_08.0202.C6.o4.gp	Method	AAT/GAP
Start	21927	End	23887
GI	18963_1.R1084	Score	1452
Exons	21927..22087, 22261..22458, 23178..23285, 23375..23479, 23583..23639, 23720..23887		
GI Descrip.	'4506221/ref NP_002807.1 pPSMD12  2.0e-47 proteasome (prosome, macropain) 26S subunit, non-ATPase, 12 >gi_1945611_dbj_BAA19749_ (AB003103) 26S proteasome subunit p55 [Homo sapiens]'		

Seq. No.	21367	Seq. ID	OJ991217_08.0202.C6
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Gene No.	44667	Strand	+
Start	21015	End	25816
Name	OJ991217_08.0202.C6.o4.gs	Method	GENSCAN
Start	22085	End	25550
GI	none	Score	.9
Exons	22085..22087, 22261..22458, 23178..23285, 23375..23479, 23720..23916, 24523..24658, 24718..24830, 24918..25071, 25160..25237, 25332..25550		

Seq. No.	21367	Seq. ID	OJ991217_08.0202.C6
Gene No.	44667	Strand	+
Start	21015	End	25816
Name	OJ991217_08.0202.C6.o5.gp	Method	AAT/GAP
Start	24790	End	25816
GI	3328_2.R1084	Score	1392
Exons	24790..24830, 24918..25071, 25160..25237, 25332..25816		
GI Descrip.	'4506221/ref NP_002807.1 pPSMD12  7.0e-23 proteasome (prosome, macropain) 26S subunit, non-ATPase, 12 >gi_1945611_dbj_BAA19749_ (AB003103) 26S proteasome subunit p55 [Homo sapiens]'		

Seq. No.	21367	Seq. ID	OJ991217_08.0202.C6
Gene No.	44668	Strand	-
Start	1	End	4332
Name	OJ991217_08.0202.C6.o1.gp	Method	AAT/GAP
Start	1	End	719
GI	none	Score	876
Exons	1..121, 389..719		

Seq. No.	21367	Seq. ID	OJ991217_08.0202.C6
Gene No.	44668	Strand	-
Start	1	End	4332
Name	OJ991217_08.0202.C6.o1.gs	Method	GENSCAN
Start	389	End	4332
GI	none	Score	.82
Exons	389..750, 1412..1528, 2400..2475, 3407..3560, 3660..3984, 4075..4332		

Seq. No.	21367	Seq. ID	OJ991217_08.0202.C6
Gene No.	44668	Strand	-
Start	1	End	4332
Name	OJ991217_08.0202.C6.o2.gp	Method	AAT/GAP
Start	3534	End	3995
GI	none	Score	659
Exons	3534..3560, 3660..3995		

Seq. No.	21367	Seq. ID	OJ991217_08.0202.C6
Gene No.	44669	Strand	-
Start	12866	End	20613
Name	OJ991217_08.0202.C6.o2.tm	Method	TBLASTX:Maize
Start	398	End	1582
GI	none	Score	458
Exons	398..724, 400..753, 401..754, 1425..1574, 1430..1573, 1431..1577, 1435..1581, 1436..1582		

Seq. No.	21367	Seq. ID	OJ991217_08.0202.C6
Gene No.	44669	Strand	-
Start	12866	End	20613

Name	OJ991217_08.0202.C6.o4.tc	Method	TBLASTX:Cress
Start	475	End	1531
GI	none	Score	108
Exons	475..624, 476..634, 595..777, 596..745, 1409..1531, 1428..1526		

Seq. No.	21367	Seq. ID	OJ991217_08.0202.C6
Gene No.	44669	Strand	-
Start	12866	End	20613
Name	OJ991217_08.0202.C6.o6.tm	Method	TBLASTX:Maize
Start	7360	End	7667
GI	none	Score	331
Exons	7360..7659, 7371..7667, 7376..7666, 7443..7667		

Seq. No.	21367	Seq. ID	OJ991217_08.0202.C6
Gene No.	44669	Strand	-
Start	12866	End	20613
Name	OJ991217_08.0202.C6.o4.tm	Method	TBLASTX:Maize
Start	8736	End	9192
GI	none	Score	101
Exons	8736..8795, 8737..8826, 8841..9074, 8842..9075, 8876..9079, 8953..9078, 9103..9192, 9107..9178, 9112..9192		

Seq. No.	21367	Seq. ID	OJ991217_08.0202.C6
Gene No.	44669	Strand	-
Start	12866	End	20613
Name	OJ991217_08.0202.C6.o2.tw	Method	TBLASTX:Wheat
Start	9100	End	9708
GI	none	Score	282
Exons	9100..9486, 9156..9455, 9502..9591, 9586..9708		

Seq. No.	21367	Seq. ID	OJ991217_08.0202.C6
Gene No.	44669	Strand	-
Start	12866	End	20613
Name	OJ991217_08.0202.C6.o7.tm	Method	TBLASTX:Maize
Start	9199	End	9755
GI	none	Score	324
Exons	9199..9726, 9211..9375, 9243..9473, 9495..9755		

Seq. No.	21367	Seq. ID	OJ991217_08.0202.C6
Gene No.	44669	Strand	-
Start	12866	End	20613
Name	OJ991217_08.0202.C6.o4.ts	Method	TBLASTX:Soybean
Start	9265	End	9726
GI	none	Score	287
Exons	9265..9726, 9339..9566		

Seq. No.	21367	Seq. ID	OJ991217_08.0202.C6
Gene No.	44669	Strand	-
Start	12866	End	20613
Name	OJ991217_08.0202.C6.o3.tc	Method	TBLASTX:Cress
Start	9280	End	9729
GI	none	Score	292
Exons	9280..9729, 9306..9455		

Seq. No.	21367	Seq. ID	OJ991217_08.0202.C6
Gene No.	44669	Strand	-
Start	12866	End	20613

Name	OJ991217_08.0202.C6.o3.ts	Method	TBLASTX:Soybean
Start	10267	End	10751
GI	5509260	Score	396
Exons	10267..10746, 10303..10524, 10401..10544, 10590..10751		
GI Descrip.	-		

Seq. No.	21367	Seq. ID	OJ991217_08.0202.C6
Gene No.	44669	Strand	-
Start	12866	End	20613
Name	OJ991217_08.0202.C6.o2.tc	Method	TBLASTX:Cress.
Start	10381	End	10650
GI	none	Score	298
Exons	10381..10650, 10395..10649		

Seq. No.	21367	Seq. ID	OJ991217_08.0202.C6
Gene No.	44669	Strand	-
Start	12866	End	20613
Name	OJ991217_08.0202.C6.o1.tw	Method	TBLASTX:Wheat
Start	10431	End	10977
GI	none	Score	282
Exons	10431..10544, 10432..10776, 10768..10977		

Seq. No.	21367	Seq. ID	OJ991217_08.0202.C6
Gene No.	44669	Strand	-
Start	12866	End	20613
Name	OJ991217_08.0202.C6.o5.tm	Method	TBLASTX:Maize
Start	10431	End	10863
GI	none	Score	339
Exons	10431..10523, 10432..10863, 10590..10805		

Seq. No.	21367	Seq. ID	OJ991217_08.0202.C6
Gene No.	44669	Strand	-
Start	12866	End	20613
Name	OJ991217_08.0202.C6.o6.tc	Method	TBLASTX:Cress
Start	10795	End	11073
GI	none	Score	202
Exons	10795..11073, 10842..11069		

Seq. No.	21367	Seq. ID	OJ991217_08.0202.C6
Gene No.	44669	Strand	-
Start	12866	End	20613
Name	OJ991217_08.0202.C6.o5.ts	Method	TBLASTX:Soybean
Start	10930	End	11109
GI	none	Score	188
Exons	10930..11109, 10932..11075		

Seq. No.	21367	Seq. ID	OJ991217_08.0202.C6
Gene No.	44669	Strand	-
Start	12866	End	20613
Name	OJ991217_08.0202.C6.o5.tw	Method	TBLASTX:Wheat
Start	10987	End	11373
GI	none	Score	101
Exons	10987..11106, 11127..11258, 11128..11373, 11329..11364		

Seq. No.	21367	Seq. ID	OJ991217_08.0202.C6
Gene No.	44669	Strand	-
Start	12866	End	20613

Name	OJ991217_08.0202.C6.o3.tm	Method	TBLASTX:Maize
Start	11119	End	11742
GI	none	Score	326
Exons	11119..11475, 11217..11330, 11373..11474, 11556..11633, 11557..11742		

Seq. No.	21367	Seq. ID	OJ991217_08.0202.C6
Gene No.	44669	Strand	-
Start	12866	End	20613
Name	OJ991217_08.0202.C6.o2.ts	Method	TBLASTX:Soybean
Start	11137	End	11811
GI	none	Score	409
Exons	11137..11481, 11137..11640, 11141..11506, 11241..11648, 11551..11811, 11725..11811		

Seq. No.	21367	Seq. ID	OJ991217_08.0202.C6
Gene No.	44669	Strand	-
Start	12866	End	20613
Name	OJ991217_08.0202.C6.o3.gs	Method	GENSCAN
Start	12866	End	20613
GI	none	Score	.89
Exons	12866..13405, 14768..14840, 15189..15311, 15640..15808, 16545..16788, 18114..18324, 18434..19451, 20577..20613		

Seq. No.	21367	Seq. ID	OJ991217_08.0202.C6
Gene No.	44669	Strand	-
Start	12866	End	20613
Name	OJ991217_08.0202.C6.o8.tm	Method	TBLASTX:Maize
Start	13070	End	13213
GI	none	Score	75
Exons	13070..13213, 13071..13190		

Seq. No.	21367	Seq. ID	OJ991217_08.0202.C6
Gene No.	44670	Strand	-
Start	22222	End	25800
Name	OJ991217_08.0202.C6.o1.tm	Method	TBLASTX:Maize
Start	22222	End	25556
GI	none	Score	329
Exons	22222..22458, 22225..22458, 22251..22463, 22380..22460, 23139..23294, 23174..23281, 23373..23480, 23375..23488, 23378..23425, 23434..23481, 23582..23641, 23583..23642, 23717..23920, 23717..23920, 23718..23924, 23718..23939, 23719..23937, 24479..24625, 24525..24620, 24548..24622, 24713..24832, 24718..24840, 24720..24827, 24887..25072, 24915..25070, 24916..25080, 24916..25101, 25129..25263, 25133..25237, 25162..25239, 25326..25556, 25331..25546		

Seq. No.	21367	Seq. ID	OJ991217_08.0202.C6
Gene No.	44670	Strand	-
Start	22222	End	25800
Name	OJ991217_08.0202.C6.o3.tw	Method	TBLASTX:Wheat
Start	22222	End	23450
GI	none	Score	65
Exons	22222..22458, 22263..22319, 22269..22463, 22270..22458, 23105..23284, 23139..23294, 23175..23288, 23374..23448, 23375..23449, 23375..23425, 23376..23450		

Seq. No.	21367	Seq. ID	OJ991217_08.0202.C6
Gene No.	44670	Strand	
Start	22222	End	25800
Name	OJ991217_08.0202.C6.o5.tc	Method	TBLASTX:Cress
Start	22233	End	23288
GI	none	Score	208
Exons	22233..22457, 22249..22458, 23148..23288, 23174..23284, 23175..23288		

Seq. No.	21367	Seq. ID	OJ991217_08.0202.C6
Gene No.	44670	Strand	
Start	22222	End	25800
Name	OJ991217_08.0202.C6.o1.ts	Method	TBLASTX:Soybean
Start	22267	End	25562
GI	none	Score	273
Exons	22267..22458, 22278..22457, 23139..23327, 23174..23284, 23358..23477, 23360..23425, 23375..23488, 23434..23481, 23582..23635, 23582..23641, 23583..23642, 23717..23920, 23717..23920, 23790..23939, 24479..24625, 24522..24617, 24526..24621, 24718..24840, 24720..24827, 24915..25004, 24916..25005, 25005..25070, 25015..25080, 25160..25237, 25162..25254, 25326..25562, 25331..25549		

Seq. No.	21367	Seq. ID	OJ991217_08.0202.C6
Gene No.	44670	Strand	
Start	22222	End	25800
Name	OJ991217_08.0202.C6.o1.tc	Method	TBLASTX:Cress
Start	24704	End	25544
GI	none	Score	89
Exons	24704..24802, 24713..24829, 24717..24827, 24718..24840, 24915..25070, 24916..25080, 24931..25083, 25129..25230, 25133..25237, 25133..25237, 25182..25238, 25325..25534, 25326..25544		

Seq. No.	21367	Seq. ID	OJ991217_08.0202.C6
Gene No.	44670	Strand	
Start	22222	End	25800
Name	OJ991217_08.0202.C6.o4.tw	Method	TBLASTX:Wheat
Start	25401	End	25800
GI	none	Score	245
Exons	25401..25553, 25404..25544, 25406..25546, 25536..25628, 25651..25686, 25652..25687, 25694..25711, 25771..25800		

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44671	Strand	+
Start	2292	End	6523
Name	OJ991217_08.0202.C7.o2.gs	Method	GENSCAN
Start	2292	End	6523
GI	none	Score	.85
Exons	2292..2298, 2399..2480, 2573..2797, 2923..2998, 3092..3184, 3286..3360, 3632..3736, 3845..3935, 4022..4227, 4719..4802, 5203..5268, 5344..5406, 5593..5833, 6426..6523		

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44671	Strand	+
Start	2292	End	6523
Name	OJ991217_08.0202.C7.o3.gp	Method	AAT/GAP

Start	2547	End	3179
GI	63630_1.R1084	Score	775
Exons	2547..2797, 2923..2998, 3092..3179		
GI Descrip.	'3924612 4.0e-26 (AF069442) mitochondrial elongation factor Tu [Arabidopsis thaliana] >gi_4263511_gb_AAD15337_ (AC004044) mitochondrial elongation factor Tu [Arabidopsis thaliana]'		

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44671	Strand	+
Start	2292	End	6523
Name	OJ991217_08.0202.C7.o1.np	Method	AAT/NAP
Start	2610	End	5990
GI	3924612	Score	1488
Exons	2610..2797, 2923..2998, 3092..3184, 3286..3360, 3632..3736, 3845..3935, 4022..4227, 4719..4797, 5195..5268, 5344..5406, 5593..5833, 5923..5990		

GI Descrip. (AF069442) mitochondrial elongation factor Tu [Arabidopsis thaliana] gi|4263511|gb|AAD15337| (AC004044) mitochondrial elongation factor Tu [Arabidopsis thaliana]

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44671	Strand	+
Start	2292	End	6523
Name	OJ991217_08.0202.C7.o4.gp	Method	AAT/GAP
Start	3905	End	5071
GI	28202_1.R1084	Score	1037
Exons	3905..3935, 4022..4227, 4719..5071		

GI Descrip. '3924612 2.0e-45 (AF069442) mitochondrial elongation factor Tu [Arabidopsis thaliana] >gi\_4263511\_gb\_AAD15337\_ (AC004044) mitochondrial elongation factor Tu [Arabidopsis thaliana]'

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44671	Strand	+
Start	2292	End	6523
Name	OJ991217_08.0202.C7.o5.gp	Method	AAT/GAP
Start	5579	End	6290
GI	503_1.R1084	Score	1131
Exons	5579..5833, 5923..6290		

GI Descrip. '2129754/pir||S62701 3.0e-46 translation elongation factor Tu precursor - Arabidopsis thaliana >gi\_1149571\_emb\_CAA61511\_ (X89227) mitochondrial elongation factor Tu [Arabidopsis thaliana]'

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44672	Strand	+
Start	13175	End	19259
Name	OJ991217_08.0202.C7.o5.gs	Method	GENSCAN
Start	13175	End	15149
GI	none	Score	.99
Exons	13175..13640, 14971..15149		

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44672	Strand	+
Start	13175	End	19259
Name	OJ991217_08.0202.C7.o4.np	Method	AAT/NAP
Start	13178	End	19259
GI	2244765	Score	239

Exons 13178..13480, 13574..13655, 14886..15079, 19220..19259  
 GI Descrip. (Z97335) hypothetical protein [Arabidopsis thaliana]

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44672	Strand	+
Start	13175	End	19259
Name	OJ991217_08.0202.C7.o9.gp	Method	AAT/GAP
Start	13184	End	15020
GI	47538 1.R1084	Score	925
Exons	13184..13640, 14971..15020		
GI Descrip.	'2244765/emb CAB10188.1  2.0e-19 (Z97335) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44672	Strand	+
Start	13175	End	19259
Name	OJ991217_08.0202.C7.o6.gs	Method	GENSCAN
Start	16393	End	17854
GI	none	Score	.69
Exons	16393..16521, 17502..17565, 17730..17854		

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44672	Strand	+
Start	13175	End	19259
Name	OJ991217_08.0202.C7.o5.np	Method	AAT/NAP
Start	16947	End	19259
GI	5734621	Score	417
Exons	16947..17022, 18884..19023, 19112..19259		
GI Descrip.	(AP000391) ESTs AU067992(C11433), AU077424(C11433) correspond to a region of the predicted gene.; Similar to ABC transporter-7 (U43892) [Oryza sativa]		

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44672	Strand	+
Start	13175	End	19259
Name	OJ991217_08.0202.C7.o10.gp	Method	AAT/GAP
Start	18183	End	18356
GI	2798777	Score	294
Exons	18183..18356		
GI Descrip.	2286121 2.0e-31 (U88068) sec14 like protein [Oryza sativa]		

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44672	Strand	+
Start	13175	End	19259
Name	OJ991217_08.0202.C7.o7.gs	Method	GENSCAN
Start	18240	End	19200
GI	none	Score	.69
Exons	18240..18356, 18952..19200		

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44673	Strand	-
Start	89	End	2335
Name	OJ991217_08.0202.C7.o1.gp	Method	AAT/GAP
Start	89	End	1884
GI	none	Score	1028
Exons	89..572, 1843..1884		

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44673	Strand	-
Start	89	End	2335
Name	OJ991217_08.0202.C7.o1.gs	Method	GENSCAN
Start	517	End	2098
GI	none	Score	.85
Exons	517..572, 1843..2098		

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44673	Strand	-
Start	89	End	2335
Name	OJ991217_08.0202.C7.o2.gp	Method	AAT/GAP
Start	1944	End	2335
GI	LIB3431-030-P1-K2-C10	Score	740
Exons	1944..2335		
GI Descrip.	'4678303/emb CAB41094.1  1.0e-13 (AL049655) putative protein [Arabidopsis thaliana]'		

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44674	Strand	-
Start	6933	End	10588
Name	OJ991217_08.0202.C7.o3.gs	Method	GENSCAN
Start	6933	End	10246
GI	none	Score	.65
Exons	6933..7499, 7513..7631, 7668..7782, 8749..8888, 9954..10102, 10203..10246		

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44674	Strand	-
Start	6933	End	10588
Name	OJ991217_08.0202.C7.o6.gp	Method	AAT/GAP
Start	8498	End	10588
GI	34262_1.R1084	Score	1418
Exons	8498..8888, 9381..9419, 9800..9856, 9954..10102, 10203..10270, 10502..10588		
GI Descrip.	'5912424/emb CAB56149.1  2.0e-51 (AJ242970) BTF3b-like factor [Arabidopsis thaliana]'		

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44674	Strand	-
Start	6933	End	10588
Name	OJ991217_08.0202.C7.o2.np	Method	AAT/NAP
Start	8713	End	10270
GI	6598870	Score	467
Exons	8713..8888, 9381..9419, 9800..9856, 9954..10102, 10203..10270		
GI Descrip.	(AC010556) putative transcription factor BTF3 (RNA polymerase B transcription factor 3) [Arabidopsis thaliana]		

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44675	Strand	-
Start	11187	End	11499
Name	OJ991217_08.0202.C7.o8.gp	Method	AAT/GAP
Start	11187	End	11499
GI	4714183	Score	563
Exons	11187..11499		

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
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Gene No.	44676	Strand	-
Start	11495	End	11905
Name	OJ991217_08.0202.C7.o1.ts	Method	TBLASTX:Soybean
Start	502	End	2104
GI	none	Score	65
Exons	502..573, 521..574, 1835..2104, 1844..2101		

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44676	Strand	-
Start	11495	End	11905
Name	OJ991217_08.0202.C7.o2.tm	Method	TBLASTX:Maize
Start	502	End	2219
GI	none	Score	66
Exons	502..573, 511..567, 521..574, 1793..2218, 1844..2101, 1845..2219		

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44676	Strand	-
Start	11495	End	11905
Name	OJ991217_08.0202.C7.o2.tc	Method	TBLASTX:Cress
Start	517	End	2105
GI	none	Score	146
Exons	517..573, 1793..2104, 1838..2089, 1998..2105		

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44676	Strand	-
Start	11495	End	11905
Name	OJ991217_08.0202.C7.o1.tm	Method	TBLASTX:Maize
Start	2511	End	6046
GI	none	Score	34
Exons	2511..2558, 2512..2559, 2621..2683, 2622..2684, 2756..2797, 2757..2798, 2759..2806, 2760..2798, 2917..3000, 2917..3036, 2924..3037, 2924..3049, 3089..3184, 3091..3183, 3277..3360, 3286..3360, 3303..3368, 3623..3739, 3629..3739, 3631..3741, 3829..3933, 3843..3932, 3843..3953, 3845..3949, 4020..4223, 4021..4227, 4021..4227, 4023..4229, 4707..4796, 4717..4860, 4718..4795, 5197..5268, 5199..5270, 5199..5267, 5200..5304, 5341..5409, 5341..5409, 5549..5701, 5590..5703, 5591..5701, 5682..5822, 5701..5835, 5703..5834, 5922..6041, 5925..6041, 5927..6046, 5929..6045		

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44676	Strand	-
Start	11495	End	11905
Name	OJ991217_08.0202.C7.o1.tc	Method	TBLASTX:Cress
Start	2771	End	5984
GI	none	Score	39
Exons	2771..2794, 2772..2795, 2909..2986, 2917..3000, 2917..3036, 2924..3037, 3089..3184, 3091..3183, 3157..3186, 3272..3355, 3278..3358, 3286..3360, 3303..3368, 3623..3739, 3631..3765, 3670..3738, 3829..3933, 3837..3935, 3843..3971, 3845..3949, 4020..4223, 4021..4227, 4021..4227, 4707..4796, 4718..4795, 5215..5268, 5341..5442, 5593..5835, 5593..5805, 5601..5834, 5919..5969, 5921..5968, 5925..5984		

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44676	Strand	-
Start	11495	End	11905

Name	OJ991217_08.0202.C7.o4.ts	Method	TBLASTX:Soybean
Start	2917	End	4813
GI	none	Score	116
Exons	2917..2985, 2921..2986, 3286..3339, 3331..3360, 3623..3739, 3670..3738, 3845..3943, 4020..4091, 4021..4095, 4126..4224, 4134..4223, 4703..4813, 4707..4796		

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44676	Strand	-
Start	11495	End	11905
Name	OJ991217_08.0202.C7.o2.tw	Method	TBLASTX:Wheat
Start	4704	End	5742
GI	none	Score	123
Exons	4704..4799, 4705..4845, 4718..4798, 5187..5267, 5197..5268, 5200..5304, 5344..5409, 5549..5716, 5590..5742, 5594..5731, 5601..5741		

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44676	Strand	-
Start	11495	End	11905
Name	OJ991217_08.0202.C7.o2.ts	Method	TBLASTX:Soybean
Start	5208	End	5995
GI	none	Score	93
Exons	5208..5264, 5209..5268, 5341..5412, 5590..5835, 5590..5826, 5601..5834, 5919..5969, 5921..5995, 5921..5968		

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44676	Strand	-
Start	11495	End	11905
Name	OJ991217_08.0202.C7.o3.tm	Method	TBLASTX:Maize
Start	8590	End	10273
GI	none	Score	45
Exons	8590..8634, 8598..8633, 8602..8661, 8641..8712, 8665..8709, 8719..8886, 8719..8892, 8720..8893, 9379..9420, 9795..9857, 9799..9858, 9805..9858, 9948..10103, 9955..10104, 10033..10104, 10194..10271, 10202..10273, 10202..10273		

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44676	Strand	-
Start	11495	End	11905
Name	OJ991217_08.0202.C7.o3.ts	Method	TBLASTX:Soybean
Start	8719	End	10273
GI	none	Score	66
Exons	8719..8805, 8725..8850, 8785..8916, 9795..9857, 9805..9858, 9936..10100, 9955..10104, 10033..10101, 10194..10271, 10202..10273, 10205..10273		

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44676	Strand	-
Start	11495	End	11905
Name	OJ991217_08.0202.C7.o3.tc	Method	TBLASTX:Cress
Start	8770	End	10277
GI	none	Score	55
Exons	8770..8805, 8770..8805, 8785..8892, 8852..8893, 9795..9857, 9802..9858, 9955..10104, 9956..10021, 10036..10101, 10194..10277, 10202..10276		

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44676	Strand	-
Start	11495	End	11905
Name	OJ991217_08.0202.C7.o1.tw	Method	TBLASTX:Wheat
Start	9777	End	10298
GI	none	Score	85
Exons	9777..9857, 9805..9858, 9806..9871, 9955..10104, 9959..10021, 9972..10103, 10030..10104, 10194..10298, 10202..10273		

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44676	Strand	-
Start	11495	End	11905
Name	OJ991217_08.0202.C7.o4.gs	Method	GENSCAN
Start	11495	End	11872
GI	none	Score	.99
Exons	11495..11872		

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44676	Strand	-
Start	11495	End	11905
Name	OJ991217_08.0202.C7.o3.hp	Method	AAT/NAP
Start	11498	End	11875
GI	3860333	Score	360
Exons	11498..11875		
GI Descrip.	(AJ012693) basic blue copper protein [Cicer arietinum]		

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44676	Strand	-
Start	11495	End	11905
Name	OJ991217_08.0202.C7.o4.tc	Method	TBLASTX:Cress
Start	11513	End	11857
GI	none	Score	82
Exons	11513..11623, 11514..11624, 11633..11857, 11658..11789		

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44676	Strand	-
Start	11495	End	11905
Name	OJ991217_08.0202.C7.o4.tm	Method	TBLASTX:Maize
Start	11513	End	11905
GI	none	Score	144
Exons	11513..11629, 11514..11627, 11627..11887, 11628..11825, 11762..11905		

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44676	Strand	-
Start	11495	End	11905
Name	OJ991217_08.0202.C7.o6.ts	Method	TBLASTX:Soybean
Start	11513	End	11822
GI	none	Score	77
Exons	11513..11623, 11517..11624, 11631..11822, 11633..11803		

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44677	Strand	-
Start	13247	End	13644
Name	OJ991217_08.0202.C7.o5.tm	Method	TBLASTX:Maize
Start	13247	End	13644
GI	none	Score	72

Exons 13247..13288, 13294..13392, 13295..13465, 13457..13642,  
13459..13644

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44677	Strand	
Start	13247	End	13644
Name	OJ991217_08.0202.C7.o5.tc	Method	TBLASTX:Cress
Start	13253	End	13509
GI	none	Score	165
Exons	13253..13384, 13276..13371, 13378..13449, 13403..13444, 13418..13507, 13462..13509		

Seq. No.	21368	Seq. ID	OJ991217_08.0202.C7
Gene No.	44677	Strand	
Start	13247	End	13644
Name	OJ991217_08.0202.C7.o5.ts	Method	TBLASTX:Soybean
Start	13253	End	13621
GI	none	Score	139
Exons	13253..13384, 13276..13371, 13403..13444, 13445..13507, 13507..13620, 13514..13621		

Seq. No.	21369	Seq. ID	OJ991217_08.0202.C8
Gene No.	44678	Strand	+
Start	2241	End	7149
Name	OJ991217_08.0202.C8.o1.gp	Method	AAT/GAP
Start	2241	End	2699
GI	2798777	Score	704
Exons	2241..2699		
GI Descrip.	2286121 2.0e-31 (U88068) sec14 like protein [Oryza sativa]		

Seq. No.	21369	Seq. ID	OJ991217_08.0202.C8
Gene No.	44678	Strand	+
Start	2241	End	7149
Name	OJ991217_08.0202.C8.o1.gs	Method	GENSCAN
Start	2243	End	2911
GI	none	Score	.65
Exons	2243..2911		

Seq. No.	21369	Seq. ID	OJ991217_08.0202.C8
Gene No.	44678	Strand	+
Start	2241	End	7149
Name	OJ991217_08.0202.C8.o1.np	Method	AAT/NAP
Start	2243	End	2881
GI	2739046	Score	547
Exons	2243..2881		
GI Descrip.	(AF024652) polyphosphoinositide binding protein Ssh2p [Glycine max]		

Seq. No.	21369	Seq. ID	OJ991217_08.0202.C8
Gene No.	44678	Strand	+
Start	2241	End	7149
Name	OJ991217_08.0202.C8.o2.np	Method	AAT/NAP
Start	2712	End	6808
GI	1652327	Score	239
Exons	2712..2786, 4523..4937, 6297..6367, 6522..6620, 6740..6808		
GI Descrip.	(D90904) hypothetical protein [Synechocystis sp.]		

Seq. No.	21369	Seq. ID	OJ991217_08.0202.C8
Gene No.	44678	Strand	+
Start	2241	End	7149
Name	OJ991217_08.0202.C8.o2.gs	Method	GENSCAN
Start	4087	End	6844
GI	none	Score	.47
Exons	4087..4937, 5462..5607, 6522..6844		

Seq. No.	21369	Seq. ID	OJ991217_08.0202.C8
Gene No.	44678	Strand	+
Start	2241	End	7149
Name	OJ991217_08.0202.C8.o4.gp	Method	AAT/GAP
Start	6594	End	7149
GI	4715658	Score	819
Exons	6594..6620, 6740..7149		

Seq. No.	21369	Seq. ID	OJ991217_08.0202.C8
Gene No.	44679	Strand	+
Start	9213	End	11809
Name	OJ991217_08.0202.C8.o3.gs	Method	GENSCAN
Start	9213	End	11809
GI	none	Score	.6
Exons	9213..9408, 10921..11073, 11426..11475, 11648..11809		

Seq. No.	21369	Seq. ID	OJ991217_08.0202.C8
Gene No.	44680	Strand	-
Start	2662	End	3122
Name	OJ991217_08.0202.C8.o2.gp	Method	AAT/GAP
Start	2662	End	3122
GI	4968980	Score	812
Exons	2662..3122		

Seq. No.	21369	Seq. ID	OJ991217_08.0202.C8
Gene No.	44681	Strand	-
Start	4256	End	4805
Name	OJ991217_08.0202.C8.o3.gp	Method	AAT/GAP
Start	4256	End	4805
GI	12985_1.R1084	Score	919
Exons	4256..4277, 4335..4805		
GI Descrip.	'2286121 2.0e-31 (U88068) sec14 like protein [Oryza sativa]'		

Seq. No.	21369	Seq. ID	OJ991217_08.0202.C8
Gene No.	44682	Strand	-
Start	12830	End	14193
Name	OJ991217_08.0202.C8.o4.gs	Method	GENSCAN
Start	12830	End	14193
GI	none	Score	.86
Exons	12830..13168, 13382..13966, 14095..14193		

Seq. No.	21369	Seq. ID	OJ991217_08.0202.C8
Gene No.	44683	Strand	-
Start	15715	End	23107
Name	OJ991217_08.0202.C8.o2.tc	Method	TBLASTX:Cress
Start	2237	End	2545
GI	none	Score	117
Exons	2237..2359, 2366..2545		

Seq. No.	21369	Seq. ID	OJ991217_08.0202.C8
Gene No.	44683	Strand	-
Start	15715	End	23107
Name	OJ991217_08.0202.C8.o1.ts	Method	TBLASTX:Soybean
Start	2243	End	2866
GI	none	Score	133
Exons	2243..2359, 2363..2545, 2413..2460, 2557..2604, 2558..2605, 2606..2866, 2617..2817		

Seq. No.	21369	Seq. ID	OJ991217_08.0202.C8
Gene No.	44683	Strand	-
Start	15715	End	23107
Name	OJ991217_08.0202.C8.o2.tm	Method	TBLASTX:Maize
Start	2366	End	2866
GI	none	Score	144
Exons	2366..2503, 2416..2469, 2557..2601, 2558..2605, 2606..2866, 2614..2817		

Seq. No.	21369	Seq. ID	OJ991217_08.0202.C8
Gene No.	44683	Strand	-
Start	15715	End	23107
Name	OJ991217_08.0202.C8.o5.tm	Method	TBLASTX:Maize
Start	4322	End	4726
GI	none	Score	60
Exons	4322..4408, 4519..4671, 4520..4675, 4670..4726, 4686..4724		

Seq. No.	21369	Seq. ID	OJ991217_08.0202.C8
Gene No.	44683	Strand	-
Start	15715	End	23107
Name	OJ991217_08.0202.C8.o3.ts	Method	TBLASTX:Soybean
Start	4519	End	6828
GI	none	Score	140
Exons	4519..4650, 4520..4651, 4732..4938, 4739..4939, 6295..6366, 6296..6367, 6346..6390, 6522..6629, 6524..6622, 6531..6629, 6737..6817, 6737..6811, 6739..6828		

Seq. No.	21369	Seq. ID	OJ991217_08.0202.C8
Gene No.	44683	Strand	-
Start	15715	End	23107
Name	OJ991217_08.0202.C8.o4.tm	Method	TBLASTX:Maize
Start	4745	End	6837
GI	none	Score	288
Exons	4745..4939, 4747..4938, 6294..6359, 6295..6360, 6295..6366, 6296..6367, 6520..6621, 6521..6622, 6522..6620, 6522..6629, 6737..6826, 6738..6827, 6739..6837		

Seq. No.	21369	Seq. ID	OJ991217_08.0202.C8
Gene No.	44683	Strand	-
Start	15715	End	23107
Name	OJ991217_08.0202.C8.o5.gs	Method	GENSCAN
Start	15715	End	23070
GI	none	Score	.48
Exons	15715..15927, 16270..16458, 16516..17046, 18024..18152, 18239..18301, 18923..19039, 19128..19220, 19302..19421, 19536..19652, 19909..20004, 20502..20522, 21018..21172, 22377..22417, 22504..22586, 22687..22911, 23005..23070		

Seq. No.	21369	Seq. ID	OJ991217_08.0202.C8
Gene No.	44683	Strand	-
Start	15715	End	23107
Name	OJ991217_08.0202.C8.o5.gp	Method	AAT/GAP
Start	17694	End	19405
GI	3235_1.R1084	Score	1707
Exons	17694..18152, 18239..18301, 18459..18575, 18923..19039, 19128..19220, 19302..19405		
GI Descrip.	'4376158/emb CAA67376  2.0e-83 (X98873) aspartate kinase [Arabidopsis thaliana]'		

Seq. No.	21369	Seq. ID	OJ991217_08.0202.C8
Gene No.	44683	Strand	-
Start	15715	End	23107
Name	OJ991217_08.0202.C8.o1.tw	Method	TBLASTX:Wheat
Start	17935	End	18973
GI	none	Score	54
Exons	17935..18024, 17977..18015, 18021..18155, 18038..18154, 18227..18310, 18228..18305, 18457..18585, 18459..18578, 18459..18587, 18460..18600, 18921..18971, 18923..18973		

Seq. No.	21369	Seq. ID	OJ991217_08.0202.C8
Gene No.	44683	Strand	-
Start	15715	End	23107
Name	OJ991217_08.0202.C8.o3.tm	Method	TBLASTX:Maize
Start	17976	End	18631
GI	none	Score	117
Exons	17976..18155, 17984..18154, 17985..18155, 18227..18310, 18228..18305, 18443..18631, 18457..18585, 18459..18587		

Seq. No.	21369	Seq. ID	OJ991217_08.0202.C8
Gene No.	44683	Strand	-
Start	15715	End	23107
Name	OJ991217_08.0202.C8.o4.np	Method	AAT/NAP
Start	18000	End	23107
GI	4376158	Score	1555
Exons	18000..18152, 18239..18301, 18459..18575, 18923..19039, 19128..19220, 19302..19421, 19536..19652, 19909..20004, 20123..20273, 21018..21213, 22504..22586, 22687..22836, 23065..23107		
GI Descrip.	(X98873) aspartate kinase [Arabidopsis thaliana]		

Seq. No.	21369	Seq. ID	OJ991217_08.0202.C8
Gene No.	44683	Strand	-
Start	15715	End	23107
Name	OJ991217_08.0202.C8.o1.tc	Method	TBLASTX:Cress
Start	18021	End	22836
GI	none	Score	91
Exons	18021..18155, 18227..18310, 18228..18293, 18457..18585, 18458..18586, 18459..18587, 18921..19049, 18923..19048, 19103..19222, 19122..19223, 19123..19221, 19276..19422, 19302..19424, 19302..19421, 19303..19422, 19527..19652, 19529..19654, 19530..19655, 19534..19668, 19876..20007, 19907..20005, 20123..20185, 20124..20198, 20187..20315, 20191..20274, 21009..21143, 21022..21165, 22497..22586, 22498..22587, 22663..22836, 22691..22822		

Seq. No.	21369	Seq. ID	OJ991217_08.0202.C8
Gene No.	44683	Strand	-
Start	15715	End	23107
Name	OJ991217_08.0202.C8.o2.ts	Method	TBLASTX:Soybean
Start	18075	End	22839
GI	none	Score	77

Exons 18075..18155, 18088..18153, 18227..18310, 18228..18305,  
18454..18579, 18459..18587, 18460..18579, 18921..19049,  
18923..19099, 19112..19213, 19112..19222, 19122..19223,  
19123..19215, 19276..19425, 19302..19421, 19527..19652,  
19530..19655, 19534..19653, 19876..19998, 19877..19999,  
19904..20005, 19908..20006, 20123..20185, 20124..20198,  
20158..20274, 20175..20315, 20187..20282, 20988..21164,  
21009..21143, 21022..21165, 21049..21162, 22378..22422,  
22381..22419, 22497..22586, 22498..22587, 22663..22839,  
22691..22822

Seq. No.	21369	Seq. ID	OJ991217_08.0202.C8
Gene No.	44683	Strand	-
Start	15715	End	23107
Name	OJ991217_08.0202.C8.o1.tm	Method	TBLASTX:Maize
Start	18924	End	22553
GI	none	Score	148

Exons 18924..19040, 18924..19040, 18925..19041, 18926..19048,  
19122..19208, 19122..19223, 19123..19212, 19276..19422,  
19299..19424, 19302..19421, 19519..19653, 19527..19649,  
19530..19655, 19534..19653, 19876..20007, 19904..20005,  
20115..20198, 20117..20185, 20187..20315, 20188..20274,  
20192..20281, 20252..20329, 21002..21136, 21006..21173,  
21009..21143, 21022..21204, 21026..21175, 22369..22422,  
22497..22553

Seq. No.	21369	Seq. ID	OJ991217_08.0202.C8
Gene No.	44683	Strand	-
Start	15715	End	23107
Name	OJ991217_08.0202.C8.o6.gp	Method	AAT/GAP
Start	20224	End	22801
GI	LIB3434-003-P1-K1-C5	Score	743

Exons 20224..20281, 21026..21172, 22377..22417, 22504..22586,  
22687..22801

GI Descrip. '4376158/emb|CAA67376| 6.0e-52 (X98873) aspartate kinase  
[Arabidopsis thaliana]'

Seq. No.	21369	Seq. ID	OJ991217_08.0202.C8
Gene No.	44683	Strand	-
Start	15715	End	23107
Name	OJ991217_08.0202.C8.o6.tm	Method	TBLASTX:Maize
Start	22558	End	22902
GI	none	Score	46

Exons 22558..22611, 22561..22602, 22687..22902, 22688..22822

Seq. No.	21370	Seq. ID	OJ991217_08.0202.C9
Gene No.	44684	Strand	+
Start	124	End	3638
Name	OJ991217_08.0202.C9.o1.gs	Method	GENSCAN
Start	124	End	3638
GI	none	Score	.62



Exons 124..138, 2798..2920, 3219..3638

Seq. No. 21371 Seq. ID OJ991217\_08.0202.C10  
Gene No. 44685 Strand +  
Start 9203 End 14950  
Name OJ991217\_08.0202.C10.o4.gs Method GENSCAN  
Start 9203 End 14886  
GI none Score .77  
Exons 9203..9353, 9673..9797, 10001..10097, 10326..10754,  
11319..11656, 12678..12828, 13162..13202, 13674..13802,  
13872..14071, 14436..14521, 14651..14886

Seq. No. 21371 Seq. ID OJ991217\_08.0202.C10  
Gene No. 44685 Strand +  
Start 9203 End 14950  
Name OJ991217\_08.0202.C10.o2.np Method AAT/NAP  
Start 10572 End 12848  
GI 6841354 Score 515  
Exons 10572..10754, 11319..11656, 12678..12848  
GI Descrip. (AF161548) HSPC058 [Homo sapiens]

Seq. No. 21371 Seq. ID OJ991217\_08.0202.C10  
Gene No. 44685 Strand +  
Start 9203 End 14950  
Name OJ991217\_08.0202.C10.o1.gp Method AAT/GAP  
Start 11552 End 12798  
GI LIB3433-009-Q6-K1-D8 Score 403  
Exons 11552..11656, 12678..12798  
GI Descrip. '4731912/gb|AAD28548.1|AF111941\_1 1.0e-19 (AF111941) development  
protein DG1148 [Dictyostelium discoideum]'

Seq. No. 21371 Seq. ID OJ991217\_08.0202.C10  
Gene No. 44685 Strand +  
Start 9203 End 14950  
Name OJ991217\_08.0202.C10.o2.gp Method AAT/GAP  
Start 13706 End 14811  
GI 2428118 Score 792  
Exons 13706..13798, 13872..14071, 14651..14811  
GI Descrip. 6091744/gb|AAF03456.1|AC010797\_32 1.0e-11 (AC010797) unknown  
protein [Arabidopsis thaliana]

Seq. No. 21371 Seq. ID OJ991217\_08.0202.C10  
Gene No. 44685 Strand +  
Start 9203 End 14950  
Name OJ991217\_08.0202.C10.o3.np Method AAT/NAP  
Start 13707 End 14950  
GI 6513933 Score 333  
Exons 13707..13798, 13872..14071, 14651..14950  
GI Descrip. (AC011664) putative dehydrogenase [Arabidopsis thaliana]

Seq. No. 21371 Seq. ID OJ991217\_08.0202.C10  
Gene No. 44686 Strand -  
Start 4951 End 7971  
Name OJ991217\_08.0202.C10.o1.np Method AAT/NAP  
Start 4928 End 7971  
GI 5915841 Score 1422  
Exons 4928..5558, 5659..6117, 7468..7971

GI Descrip. CYTOCHROME P450 71E1 gi|2766452 (AF029858) cytochrome P450  
CYP71E1 [Sorghum bicolor]

Seq. No.	21371	Seq. ID	OJ991217_08.0202.C10
Gene No.	44686	Strand	-
Start	4951	End	7971
Name	OJ991217_08.0202.C10.o2.gs	Method	GENSCAN
Start	4951	End	7968
GI	none	Score	.91
Exons	4951..5558, 5631..6117, 7468..7968		

Seq. No.	21371	Seq. ID	OJ991217_08.0202.C10
Gene No.	44687	Strand	-
Start	8472	End	9060
Name	OJ991217_08.0202.C10.o3.tc	Method	TBLASTX:Cress
Start	83	End	287
GI	none	Score	245
Exons	83..271, 84..287, 102..278		

Seq. No.	21371	Seq. ID	OJ991217_08.0202.C10
Gene No.	44687	Strand	-
Start	8472	End	9060
Name	OJ991217_08.0202.C10.o3.ts	Method	TBLASTX:Soybean
Start	101	End	278
GI	none	Score	217
Exons	101..271, 102..278, 102..272		

Seq. No.	21371	Seq. ID	OJ991217_08.0202.C10
Gene No.	44687	Strand	-
Start	8472	End	9060
Name	OJ991217_08.0202.C10.o2.tw	Method	TBLASTX:Wheat
Start	4921	End	5213
GI	none	Score	168
Exons	4921..5178, 4935..5213		

Seq. No.	21371	Seq. ID	OJ991217_08.0202.C10
Gene No.	44687	Strand	-
Start	8472	End	9060
Name	OJ991217_08.0202.C10.o1.tm	Method	TBLASTX:Maize
Start	4923	End	5421
GI	none	Score	75
Exons	4923..5093, 4936..5178, 4944..5417, 5236..5421		

Seq. No.	21371	Seq. ID	OJ991217_08.0202.C10
Gene No.	44687	Strand	-
Start	8472	End	9060
Name	OJ991217_08.0202.C10.o1.tc	Method	TBLASTX:Cress
Start	4947	End	5553
GI	none	Score	244
Exons	4947..5417, 4957..5409, 5439..5552, 5440..5553		

Seq. No.	21371	Seq. ID	OJ991217_08.0202.C10
Gene No.	44687	Strand	-
Start	8472	End	9060
Name	OJ991217_08.0202.C10.o1.ts	Method	TBLASTX:Soybean
Start	4954	End	7764
GI	none	Score	122

Exons 4954..5175, 4956..5432, 5239..5367, 5451..5564, 5452..5559, 7465..7764

Seq. No.	21371	Seq. ID	OJ991217_08.0202.C10
Gene No.	44687	Strand	-
Start	8472	End	9060
Name	OJ991217_08.0202.C10.o3.tw	Method	TBLASTX:Wheat
Start	5241	End	5558
GI	none	Score	85
Exons	5241..5402, 5257..5430, 5433..5558, 5440..5544		

Seq. No.	21371	Seq. ID	OJ991217_08.0202.C10
Gene No.	44687	Strand	-
Start	8472	End	9060
Name	OJ991217_08.0202.C10.o4.tc	Method	TBLASTX:Cress
Start	7459	End	7791
GI	none	Score	133
Exons	7459..7791, 7511..7732		

Seq. No.	21371	Seq. ID	OJ991217_08.0202.C10
Gene No.	44687	Strand	-
Start	8472	End	9060
Name	OJ991217_08.0202.C10.o5.tm	Method	TBLASTX:Maize
Start	7462	End	7855
GI	none	Score	138
Exons	7462..7791, 7622..7855		

Seq. No.	21371	Seq. ID	OJ991217_08.0202.C10
Gene No.	44687	Strand	-
Start	8472	End	9060
Name	OJ991217_08.0202.C10.o3.gs	Method	GENSCAN
Start	8472	End	9060
GI	none	Score	.89
Exons	8472..8833, 9030..9060		

Seq. No.	21371	Seq. ID	OJ991217_08.0202.C10
Gene No.	44688	Strand	-
Start	10382	End	11413
Name	OJ991217_08.0202.C10.o2.tm	Method	TBLASTX:Maize
Start	10382	End	11413
GI	none	Score	70
Exons	10382..10465, 10463..10753, 10495..10752, 11304..11408, 11304..11408, 11314..11412, 11318..11413		

Seq. No.	21371	Seq. ID	OJ991217_08.0202.C10
Gene No.	44688	Strand	-
Start	10382	End	11413
Name	OJ991217_08.0202.C10.o1.tw	Method	TBLASTX:Wheat
Start	10446	End	11380
GI	none	Score	148
Exons	10446..10589, 10464..10589, 10472..10591, 10556..10753, 10589..10753, 11318..11380, 11318..11380		

Seq. No.	21371	Seq. ID	OJ991217_08.0202.C10
Gene No.	44689	Strand	-
Start	11386	End	12863
Name	OJ991217_08.0202.C10.o2.tc	Method	TBLASTX:Cress

Start	11386	End	12839
GI	none	Score	390
Exons	11386..11706, 11396..11656, 11406..11690, 12647..12823, 12675..12839, 12677..12835		

Seq. No.	21371	Seq. ID	OJ991217_08.0202.C10
Gene No.	44689	Strand	
Start	11386	End	12863
Name	OJ991217_08.0202.C10.o4.tw	Method	TBLASTX:Wheat
Start	11393	End	11629
GI	none	Score	189
Exons	11393..11629, 11393..11539, 11569..11601		

Seq. No.	21371	Seq. ID	OJ991217_08.0202.C10
Gene No.	44689	Strand	
Start	11386	End	12863
Name	OJ991217_08.0202.C10.o3.tm	Method	TBLASTX:Maize
Start	11414	End	12863
GI	none	Score	365
Exons	11414..11653, 11414..11647, 11416..11655, 12661..12855, 12677..12862, 12678..12863		

Seq. No.	21371	Seq. ID	OJ991217_08.0202.C10
Gene No.	44689	Strand	
Start	11386	End	12863
Name	OJ991217_08.0202.C10.o2.ts	Method	TBLASTX:Soybean
Start	11558	End	12848
GI	none	Score	150
Exons	11558..11656, 11560..11676, 12658..12840, 12674..12841, 12675..12848, 12677..12847		

Seq. No.	21371	Seq. ID	OJ991217_08.0202.C10
Gene No.	44690	Strand	
Start	13706	End	14895
Name	OJ991217_08.0202.C10.o4.tm	Method	TBLASTX:Maize
Start	13706	End	14895
GI	none	Score	131
Exons	13706..13807, 13713..13805, 13864..14031, 13865..13975, 13981..14073, 14016..14072, 14644..14772, 14646..14771, 14656..14778, 14660..14776, 14685..14885, 14758..14889, 14785..14895		

Seq. No.	21372	Seq. ID	OJ991217_08.0202.C11
Gene No.	44691	Strand	+
Start	111	End	424
Name	OJ991217_08.0202.C11.o1.tm	Method	TBLASTX:Maize
Start	97	End	364
GI	none	Score	67
Exons	97..363, 102..197, 116..364, 251..364		

Seq. No.	21372	Seq. ID	OJ991217_08.0202.C11
Gene No.	44691	Strand	+
Start	111	End	424
Name	OJ991217_08.0202.C11.o1.np	Method	AAT/NAP
Start	111	End	394
GI	6513933	Score	257
Exons	111..394		

GI Descrip. (AC011664) putative dehydrogenase [Arabidopsis thaliana]

Seq. No.	21372	Seq. ID	OJ991217_08.0202.C11
Gene No.	44691	Strand	+
Start	111	End	424
Name	OJ991217_08.0202.C11.o1.gs	Method	GENSCAN
Start	119	End	397
GI	none	Score	.46
Exons	119..397		

Seq. No.	21372	Seq. ID	OJ991217_08.0202.C11
Gene No.	44691	Strand	+
Start	111	End	424
Name	OJ991217_08.0202.C11.o1.tc	Method	TBLASTX:Cress
Start	130	End	424
GI	none	Score	263
Exons	130..396, 137..424		

Seq. No.	21373	Seq. ID	OJ991217_08.0202.C12
Gene No.	44692	Strand	-
Start	91	End	957
Name	OJ991217_08.0202.C12.o1.gp	Method	AAT/GAP
Start	91	End	923
GI	43215_1.R1084	Score	1436
Exons	91..813, 900..923		
GI Descrip.	'2827651/emb CAA16605.1  1.0e-33 (AL021637) putative protein [Arabidopsis thaliana]'		

Seq. No.	21373	Seq. ID	OJ991217_08.0202.C12
Gene No.	44692	Strand	-
Start	91	End	957
Name	OJ991217_08.0202.C12.o1.np	Method	AAT/NAP
Start	340	End	957
GI	2827651	Score	394
Exons	340..813, 900..957		
GI Descrip.	(AL021637) putative protein [Arabidopsis thaliana]		

Seq. No.	21373	Seq. ID	OJ991217_08.0202.C12
Gene No.	44692	Strand	-
Start	91	End	957
Name	OJ991217_08.0202.C12.o1.gs	Method	GENSCAN
Start	351	End	756
GI	none	Score	.56
Exons	351..756		

Seq. No.	21373	Seq. ID	OJ991217_08.0202.C12
Gene No.	44692	Strand	-
Start	91	End	957
Name	OJ991217_08.0202.C12.o1.ts	Method	TBLASTX:Soybean
Start	377	End	546
GI	none	Score	118
Exons	377..541, 388..546		

Seq. No.	21373	Seq. ID	OJ991217_08.0202.C12
Gene No.	44692	Strand	-
Start	91	End	957
Name	OJ991217_08.0202.C12.o1.tm	Method	TBLASTX:Maize

Start	445	End	953
GI	none	Score	71
Exons	445..612, 448..534, 613..813, 629..814, 884..943, 900..953		

Seq. No.	21373	Seq. ID	OJ991217_08.0202.C12
Gene No.	44692	Strand	-
Start	91	End	957
Name	OJ991217_08.0202.C12.o1.tc	Method	TBLASTX:Cress
Start	589	End	953
GI	none	Score	66
Exons	589..813, 590..814, 900..953		

Seq. No.	21374	Seq. ID	OJ991217_08.0202.C13
Gene No.	44693	Strand	+
Start	1	End	3721
Name	OJ991217_08.0202.C13.o1.np	Method	AAT/NAP
Start	1	End	3721
GI	6523547	Score	123
Exons	1..32, 758..863, 3518..3721		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		

Seq. No.	21374	Seq. ID	OJ991217_08.0202.C13
Gene No.	44694	Strand	-
Start	477	End	885
Name	OJ991217_08.0202.C13.o1.gp	Method	AAT/GAP
Start	477	End	885
GI	64353_1.R1084	Score	739
Exons	477..885		
GI Descrip.	'2286121 2.0e-31 (U88068) sec14 like protein [Oryza sativa]'		

Seq. No.	21374	Seq. ID	OJ991217_08.0202.C13
Gene No.	44694	Strand	-
Start	477	End	885
Name	OJ991217_08.0202.C13.o1.gs	Method	GENSCAN
Start	499	End	873
GI	none	Score	.9
Exons	499..873		

Seq. No.	21374	Seq. ID	OJ991217_08.0202.C13
Gene No.	44695	Strand	-
Start	3015	End	3692
Name	OJ991217_08.0202.C13.o2.gs	Method	GENSCAN
Start	3015	End	3692
GI	none	Score	.7
Exons	3015..3115, 3593..3692		

Seq. No.	21375	Seq. ID	OJ991217_08.0202.C14
Gene No.	44696	Strand	-
Start	5974	End	21432
Name	OJ991217_08.0202.C14.o1.np	Method	AAT/NAP
Start	5484	End	10131
GI	4406788	Score	707
Exons	5484..5553, 5981..6459, 7079..7431, 10087..10131		
GI Descrip.	(AC006532) unknown protein [Arabidopsis thaliana]		

Seq. No.	21375	Seq. ID	OJ991217_08.0202.C14
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Gene No.	44696	Strand	-
Start	5974	End	21432
Name	OJ991217_08.0202.C14.o2.gs	Method	GENSCAN
Start	5974	End	7513
GI	none	Score	.68
Exons	5974..6459, 6553..6915, 7079..7513		
Seq. No.	21375	Seq. ID	OJ991217_08.0202.C14
Gene No.	44696	Strand	-
Start	5974	End	21432
Name	OJ991217_08.0202.C14.o3.ts	Method	TBLASTX:Soybean
Start	5995	End	6213
GI	none	Score	89
Exons	5995..6213, 6026..6190		
Seq. No.	21375	Seq. ID	OJ991217_08.0202.C14
Gene No.	44696	Strand	-
Start	5974	End	21432
Name	OJ991217_08.0202.C14.o3.tm	Method	TBLASTX:Maize
Start	6019	End	6423
GI	none	Score	90
Exons	6019..6210, 6020..6208, 6220..6423, 6221..6388		
Seq. No.	21375	Seq. ID	OJ991217_08.0202.C14
Gene No.	44696	Strand	-
Start	5974	End	21432
Name	OJ991217_08.0202.C14.o3.tc	Method	TBLASTX:Cress
Start	6233	End	7219
GI	none	Score	76
Exons	6233..6361, 6235..6459, 6406..6459, 7079..7219		
Seq. No.	21375	Seq. ID	OJ991217_08.0202.C14
Gene No.	44696	Strand	-
Start	5974	End	21432
Name	OJ991217_08.0202.C14.o2.tm	Method	TBLASTX:Maize
Start	7199	End	9866
GI	none	Score	215
Exons	7199..7453, 7200..7454, 7396..7455, 9755..9862, 9759..9866		
Seq. No.	21375	Seq. ID	OJ991217_08.0202.C14
Gene No.	44696	Strand	-
Start	5974	End	21432
Name	OJ991217_08.0202.C14.o3.gs	Method	GENSCAN
Start	8779	End	20099
GI	none	Score	.47
Exons	8779..8973, 9629..9919, 10594..10750, 12237..12320, 13801..13919, 15777..15939, 16213..16386, 16910..18847, 19513..19571, 19943..20099		
Seq. No.	21375	Seq. ID	OJ991217_08.0202.C14
Gene No.	44696	Strand	-
Start	5974	End	21432
Name	OJ991217_08.0202.C14.o1.gp	Method	AAT/GAP
Start	9704	End	10086
GI	none	Score	758
Exons	9704..10086		

Seq. No.	21375	Seq. ID	OJ991217_08.0202.C14
Gene No.	44696	Strand	-
Start	5974	End	21432
Name	OJ991217_08.0202.C14.o2.np	Method	AAT/NAP
Start	15504	End	21432
GI	6907098	Score	554
Exons	15504..15563; 15777..15905, 16213..16457, 21397..21432		
GI Descrip.	(AP001129) EST AU031036(E60617) corresponds to a region of the predicted gene.; Similar to Human mRNA for KIAA0310 gene. (AB002308) [Oryza sativa]		

Seq. No.	21375	Seq. ID	OJ991217_08.0202.C14
Gene No.	44696	Strand	-
Start	5974	End	21432
Name	OJ991217_08.0202.C14.o2.ts	Method	TBLASTX:Soybean
Start	15540	End	15893
GI	none	Score	107
Exons	15540..15641, 15556..15639, 15562..15642, 15636..15698, 15638..15703, 15756..15893		

Seq. No.	21375	Seq. ID	OJ991217_08.0202.C14
Gene No.	44696	Strand	-
Start	5974	End	21432
Name	OJ991217_08.0202.C14.o3.np	Method	AAT/NAP
Start	16789	End	19483
GI	2829915	Score	1439
Exons	16789..18320, 18348..18847, 19436..19483		
GI Descrip.	(AC002291) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	21375	Seq. ID	OJ991217_08.0202.C14
Gene No.	44696	Strand	-
Start	5974	End	21432
Name	OJ991217_08.0202.C14.o1.ts	Method	TBLASTX:Soybean
Start	16792	End	17239
GI	none	Score	38
Exons	16792..17238, 16793..16819, 16916..17239		

Seq. No.	21375	Seq. ID	OJ991217_08.0202.C14
Gene No.	44696	Strand	-
Start	5974	End	21432
Name	OJ991217_08.0202.C14.o4.tm	Method	TBLASTX:Maize
Start	16792	End	17667
GI	none	Score	132
Exons	16792..17271, 16931..17281, 17521..17667, 17540..17638		

Seq. No.	21375	Seq. ID	OJ991217_08.0202.C14
Gene No.	44696	Strand	-
Start	5974	End	21432
Name	OJ991217_08.0202.C14.o1.tc	Method	TBLASTX:Cress
Start	16972	End	18570
GI	none	Score	156
Exons	16972..17355, 16988..17356, 17521..17667, 18487..18570		

Seq. No.	21375	Seq. ID	OJ991217_08.0202.C14
Gene No.	44696	Strand	-
Start	5974	End	21432
Name	OJ991217_08.0202.C14.o1.tw	Method	TBLASTX:Wheat



Start	17029	End	18570
GI	none	Score	99
Exons	17029..17097, 17104..17580, 17164..17280, 17165..17404, 17599..17817, 17974..18309, 18454..18570		

Seq. No.	21375	Seq. ID	OJ991217_08.0202.C14
Gene No.	44696	Strand	-
Start	5974	End	21432
Name	OJ991217_08.0202.C14.o1.tm	Method	TBLASTX:Maize
Start	17284	End	18534
GI	none	Score	387
Exons	17284..17469, 17677..17820, 18043..18198, 18074..18514, 18076..18534		

Seq. No.	21375	Seq. ID	OJ991217_08.0202.C14
Gene No.	44696	Strand	-
Start	5974	End	21432
Name	OJ991217_08.0202.C14.o2.tc	Method	TBLASTX:Cress
Start	17362	End	18660
GI	none	Score	68
Exons	17362..17469, 17698..18321, 17947..18126, 17948..18079, 17974..18315, 18160..18192, 18367..18486, 18604..18660		

Seq. No.	21376	Seq. ID	OJ991217_08.0202.C15
Gene No.	44697	Strand	+
Start	1	End	5171
Name	OJ991217_08.0202.C15.o1.np	Method	AAT/NAP
Start	1	End	4711
GI	4678263	Score	1743
Exons	1..421, 1027..1233, 1632..1968, 2096..2257, 2471..2570, 2657..2866, 2957..3071, 3615..3821, 3964..4065, 4359..4481, 4562..4711		
GI Descrip.	(AL049657) brefeldin A-sensitive Golgi protein-like [Arabidopsis thaliana]		

Seq. No.	21376	Seq. ID	OJ991217_08.0202.C15
Gene No.	44697	Strand	+
Start	1	End	5171
Name	OJ991217_08.0202.C15.o1.gs	Method	GENSCAN
Start	50	End	5171
GI	none	Score	.85
Exons	50..421, 1027..1233, 1632..1968, 2096..2257, 2471..2570, 2657..2866, 2957..3071, 3615..3821, 3964..4020, 4359..4481, 4562..4696, 5058..5171		

Seq. No.	21376	Seq. ID	OJ991217_08.0202.C15
Gene No.	44697	Strand	+
Start	1	End	5171
Name	OJ991217_08.0202.C15.o1.gp	Method	AAT/GAP
Start	2158	End	3795
GI	26637_1.R1084	Score	1299
Exons	2158..2257, 2471..2570, 2657..2866, 2957..3071, 3615..3795		
GI Descrip.	'2286121 2.0e-31 (U88068) sec14 like protein [Oryza sativa]'		

Seq. No.	21376	Seq. ID	OJ991217_08.0202.C15
Gene No.	44698	Strand	+
Start	5093	End	5437

Name OJ991217\_08.0202.C15.o2.gp  
Start 5093  
GI 3768939  
Exons 5093..5437

Method AAT/GAP  
End 5437  
Score 604

Seq. No. 21376  
Gene No. 44699  
Start 5775  
Name OJ991217\_08.0202.C15.o2.tc  
Start 2  
GI none  
Exons 2..268

Seq. ID OJ991217\_08.0202.C15  
Strand -  
End 5942  
Method TBLASTX:Cress  
End 268  
Score 222

Seq. No. 21376  
Gene No. 44699  
Start 5775  
Name OJ991217\_08.0202.C15.o1.tm  
Start 1024  
GI none  
Exons 1024..1083, 1025..1081, 1026..1091, 1026..1082, 1128..1229,

Seq. ID OJ991217\_08.0202.C15  
Strand -  
End 5942  
Method TBLASTX:Maize  
End 5202  
Score 85

1128..1229, 1129..1233, 1129..1233, 1605..1973, 1613..1966,  
1615..1989, 2093..2257, 2094..2258, 2097..2258, 2098..2259,  
2476..2547, 2478..2543, 2485..2547, 2652..2750, 2657..2740,  
2700..2870, 2728..2871, 2730..2873, 2747..2872, 2755..2874,  
2918..3067, 2940..3080, 2955..3080, 2956..3093, 3583..3744,  
3615..3821, 3617..3823, 3617..3775, 3963..4067, 3963..4067,  
3964..4068, 4333..4482, 4341..4481, 4354..4485, 4358..4486,  
4359..4490, 4555..4740, 4562..4696, 4636..4701, 5039..5179,  
5052..5195, 5052..5195, 5056..5202

Seq. No. 21376  
Gene No. 44699  
Start 5775  
Name OJ991217\_08.0202.C15.o1.tc  
Start 1042  
GI none  
Exons 1042..1092, 1140..1232, 1141..1233, 1605..1877, 1628..1882

Seq. ID OJ991217\_08.0202.C15  
Strand -  
End 5942  
Method TBLASTX:Cress  
End 1882  
Score 43

Seq. No. 21376  
Gene No. 44699  
Start 5775  
Name OJ991217\_08.0202.C15.o1.ts  
Start 1706  
GI none  
Exons 1706..1963, 1707..1973, 2085..2258, 2092..2259, 2109..2282,

Seq. ID OJ991217\_08.0202.C15  
Strand -  
End 5942  
Method TBLASTX:Soybean  
End 2873  
Score 312

2466..2561, 2470..2571, 2652..2702, 2654..2695, 2730..2873,  
2753..2869

Seq. No. 21376  
Gene No. 44699  
Start 5775  
Name OJ991217\_08.0202.C15.o2.gs  
Start 5775  
GI none  
Exons 5775..5942

Seq. ID OJ991217\_08.0202.C15  
Strand -  
End 5942  
Method GENSCAN  
End 5942  
Score .7

Seq. No. 21377

Seq. ID OJ991217\_08.0202.C16

Gene No.	44700	Strand	+
Start	1	End	1527
Name	OJ991217_08.0202.C16.o1.np	Method	AAT/NAP
Start	1	End	1527
GI	2792220	Score	602
Exons	1..840, 880..1527		
GI Descrip.	(AF032688) NBS-LRR type resistance protein [Oryza sativa]		

Seq. No.	21377	Seq. ID	OJ991217_08.0202.C16
Gene No.	44700	Strand	+
Start	1	End	1527
Name	OJ991217_08.0202.C16.o1.tc	Method	TBLASTX:Cress
Start	1	End	711
GI	none	Score	109
Exons	1..108, 172..243, 340..387, 421..564, 586..711		

Seq. No.	21377	Seq. ID	OJ991217_08.0202.C16
Gene No.	44700	Strand	+
Start	1	End	1527
Name	OJ991217_08.0202.C16.o1.ts	Method	TBLASTX:Soybean
Start	1	End	519
GI	none	Score	85
Exons	1..66, 70..162, 87..188, 180..341, 184..342, 286..519		

Seq. No.	21377	Seq. ID	OJ991217_08.0202.C16
Gene No.	44700	Strand	+
Start	1	End	1527
Name	OJ991217_08.0202.C16.o3.tm	Method	TBLASTX:Maize
Start	355	End	816
GI	none	Score	123
Exons	355..594, 592..816, 657..815		

Seq. No.	21377	Seq. ID	OJ991217_08.0202.C16
Gene No.	44700	Strand	+
Start	1	End	1527
Name	OJ991217_08.0202.C16.o2.ts	Method	TBLASTX:Soybean
Start	550	End	819
GI	none	Score	177
Exons	550..741, 552..728, 748..819, 762..818		

Seq. No.	21377	Seq. ID	OJ991217_08.0202.C16
Gene No.	44701	Strand	
Start	2086	End	2844
Name	OJ991217_08.0202.C16.o1.tm	Method	TBLASTX:Maize
Start	2086	End	2667
GI	none	Score	90
Exons	2086..2667, 2161..2514, 2330..2602		

Seq. No.	21377	Seq. ID	OJ991217_08.0202.C16
Gene No.	44701	Strand	
Start	2086	End	2844
Name	OJ991217_08.0202.C16.o2.tw	Method	TBLASTX:Wheat
Start	2098	End	2469
GI	none	Score	66
Exons	2098..2271, 2161..2274, 2305..2469, 2306..2467		

Seq. No.	21377	Seq. ID	OJ991217_08.0202.C16
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Gene No. 44701  
 Start 2086  
 Name OJ991217\_08.0202.C16.o1.tw  
 Start 2482  
 GI none  
 Exons 2482..2634, 2641..2844

Strand  
 End 2844  
 Method TBLASTX;Wheat  
 End 2844  
 Score 89

Seq. No. 21377  
 Gene No. 44702  
 Start 2863  
 Name OJ991217\_08.0202.C16.o2.tm  
 Start 2863  
 GI none  
 Exons 2863..3150, 2924..3151

Seq. ID OJ991217\_08.0202.C16  
 Strand  
 End 3151  
 Method TBLASTX;Maize  
 End 3151  
 Score 151

Seq. No. 21378  
 Gene No. 44703  
 Start 131  
 Name OJ991217\_04.0207.C2.o1.gs  
 Start 131  
 GI none  
 Exons 131..138, 167..264, 290..435

Seq. ID OJ991217\_04.0207.C2  
 Strand +  
 End 435  
 Method GENSCAN  
 End 435  
 Score .55

Seq. No. 21378  
 Gene No. 44703  
 Start 131  
 Name OJ991217\_04.0207.C2.o1.np  
 Start 131  
 GI 6437556  
 Exons 131..430  
 GI Descrip. (AC011623) unknown protein [Arabidopsis thaliana]

Seq. ID OJ991217\_04.0207.C2  
 Strand +  
 End 435  
 Method AAT/NAP  
 End 430  
 Score 212

Seq. No. 21378  
 Gene No. 44704  
 Start 324  
 Name OJ991217\_04.0207.C2.o1.tm  
 Start 62  
 GI none  
 Exons 62..142, 132..242, 143..208, 208..444, 215..445

Seq. ID OJ991217\_04.0207.C2  
 Strand -  
 End 591  
 Method TBLASTX;Maize  
 End 445  
 Score 60

Seq. No. 21378  
 Gene No. 44704  
 Start 324  
 Name OJ991217\_04.0207.C2.o1.tc  
 Start 132  
 GI none  
 Exons 132..212, 143..211, 211..285, 215..274, 304..420, 308..430, 313..423

Seq. ID OJ991217\_04.0207.C2  
 Strand -  
 End 591  
 Method TBLASTX;Cress  
 End 430  
 Score 76

Seq. No. 21378  
 Gene No. 44704  
 Start 324  
 Name OJ991217\_04.0207.C2.o1.ts  
 Start 132  
 GI none  
 Exons 132..212, 132..233, 215..292, 308..430, 322..429

Seq. ID OJ991217\_04.0207.C2  
 Strand -  
 End 591  
 Method TBLASTX;Soybean  
 End 430  
 Score 94

Seq. No.	21378	Seq. ID	OJ991217_04.0207.C2
Gene No.	44704	Strand	-
Start	324	End	591
Name	OJ991217_04.0207.C2.ol.gp	Method	AAT/GAP
Start	324	End	591
GI	68204_1.R1084	Score	446
Exons	324..591		
GI Descrip.	'2435511 1.0e-48 (AF024504) contains similarity to prolyl 4-hydroxylase alpha subunit [Arabidopsis thaliana]'		

Seq. No.	21379	Seq. ID	OJ991217_04.0207.C3
Gene No.	44705	Strand	+
Start	1	End	177
Name	OJ991217_04.0207.C3.ol.np	Method	AAT/NAP
Start	1	End	177
GI	4105697	Score	133
Exons	1..177		
GI Descrip.	(AF049870) thaumatin-like protein [Arabidopsis thaliana]		

Seq. No.	21380	Seq. ID	OJ991217_04.0207.C5
Gene No.	44706	Strand	+
Start	404	End	637
Name	OJ991217_04.0207.C5.ol.np	Method	AAT/NAP
Start	404	End	637
GI	6735375	Score	158
Exons	404..471, 552..637		
GI Descrip.	(AL137082) putative protein [Arabidopsis thaliana]		

Seq. No.	21380	Seq. ID	OJ991217_04.0207.C5
Gene No.	44706	Strand	+
Start	404	End	637
Name	OJ991217_04.0207.C5.ol.tm	Method	TBLASTX:Maize
Start	417	End	637
GI	none	Score	95
Exons	417..473, 417..473, 418..474, 419..484, 536..637, 537..632		

Seq. No.	21380	Seq. ID	OJ991217_04.0207.C5
Gene No.	44706	Strand	+
Start	404	End	637
Name	OJ991217_04.0207.C5.ol.ts	Method	TBLASTX:Soybean
Start	417	End	637
GI	none	Score	56
Exons	417..473, 418..474, 418..483, 536..634, 536..637, 537..635		

Seq. No.	21381	Seq. ID	OJ991217_04.0207.C6
Gene No.	44707	Strand	+
Start	1	End	145
Name	OJ991217_04.0207.C6.ol.gp	Method	AAT/GAP
Start	1	End	145
GI	none	Score	273
Exons	1..145		

Seq. No.	21382	Seq. ID	OJ991217_04.0207.C7
Gene No.	44708	Strand	-
Start	1	End	2394
Name	OJ991217_04.0207.C7.ol.np	Method	AAT/NAP
Start	1	End	2394

GI 6721512 Score 38  
 Exons 1..45, 261..439, 2343..2394  
 GI Descrip. (AP001072) hypothetical protein [Oryza sativa]

Seq. No. 21382 Seq. ID OJ991217\_04.0207.C7  
 Gene No. 44708 Strand -  
 Start 1 End 2394  
 Name OJ991217\_04.0207.C7.o1.gs Method GENSCAN  
 Start 185 End 2337  
 GI none Score .51  
 Exons 185..394, 880..1002, 2024..2179, 2269..2337

Seq. No. 21383 Seq. ID OJ991217\_04.0207.C8  
 Gene No. 44709 Strand +  
 Start 1 End 14991  
 Name OJ991217\_04.0207.C8.o3.np Method AAT/NAP  
 Start 1 End 14991  
 GI 4680186 Score 359  
 Exons 1..85, 2498..2529, 8036..8089, 14791..14991  
 GI Descrip. (AF111709) unknown [Oryza sativa subsp. indica]

Seq. No. 21383 Seq. ID OJ991217\_04.0207.C8  
 Gene No. 44709 Strand +  
 Start 1 End 14991  
 Name OJ991217\_04.0207.C8.o1.gs Method GENSCAN  
 Start 4 End 6506  
 GI none Score .75  
 Exons 4..174, 205..361, 412..503, 668..1573, 1644..1787, 1805..3173, 3229..5169, 5887..6506

Seq. No. 21383 Seq. ID OJ991217\_04.0207.C8  
 Gene No. 44709 Strand +  
 Start 1 End 14991  
 Name OJ991217\_04.0207.C8.o1.np Method AAT/NAP  
 Start 665 End 5183  
 GI 4680179 Score 5390  
 Exons 665..1750, 1784..5183  
 GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. No. 21383 Seq. ID OJ991217\_04.0207.C8  
 Gene No. 44709 Strand +  
 Start 1 End 14991  
 Name OJ991217\_04.0207.C8.o1.gp Method AAT/GAP  
 Start 7257 End 7636  
 GI uC-osflcyp033a04b1 Score 633  
 Exons 7257..7636  
 GI Descrip. '6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'

Seq. No. 21383 Seq. ID OJ991217\_04.0207.C8  
 Gene No. 44710 Strand -  
 Start 834 End 14924  
 Name OJ991217\_04.0207.C8.o2.np Method AAT/NAP  
 Start 834 End 11117  
 GI 5852180 Score 494  
 Exons 834..863, 5922..6326, 6378..6502, 7486..7550, 11032..11117  
 GI Descrip. (AL117265) zhb00010.1 [Oryza sativa]

Seq. No. 21383  
 Gene No. 44710  
 Start 834  
 Name OJ991217\_04.0207.C8.o9.tw  
 Start 914  
 GI none  
 Exons 914..1111, 916..1113

Seq. ID OJ991217\_04.0207.C8  
 Strand -  
 End 14924  
 Method TBLASTX:Wheat  
 End 1113  
 Score 202

Seq. No. 21383  
 Gene No. 44710  
 Start 834  
 Name OJ991217\_04.0207.C8.o7.tw  
 Start 1147  
 GI none  
 Exons 1147..1341, 1148..1498

Seq. ID OJ991217\_04.0207.C8  
 Strand -  
 End 14924  
 Method TBLASTX:Wheat  
 End 1498  
 Score 297

Seq. No. 21383  
 Gene No. 44710  
 Start 834  
 Name OJ991217\_04.0207.C8.o6.tm  
 Start 1148  
 GI none  
 Exons 1148..1453, 1162..1278

Seq. ID OJ991217\_04.0207.C8  
 Strand -  
 End 14924  
 Method TBLASTX:Maize  
 End 1453  
 Score 236

Seq. No. 21383  
 Gene No. 44710  
 Start 834  
 Name OJ991217\_04.0207.C8.o7.tm  
 Start 1805  
 GI none  
 Exons 1805..2128

Seq. ID OJ991217\_04.0207.C8  
 Strand -  
 End 14924  
 Method TBLASTX:Maize  
 End 2128  
 Score 193

Seq. No. 21383  
 Gene No. 44710  
 Start 834  
 Name OJ991217\_04.0207.C8.o8.tw  
 Start 1811  
 GI none  
 Exons 1811..2020, 1867..1953, 2065..2178, 2066..2179

Seq. ID OJ991217\_04.0207.C8  
 Strand -  
 End 14924  
 Method TBLASTX:Wheat  
 End 2179  
 Score 170

Seq. No. 21383  
 Gene No. 44710  
 Start 834  
 Name OJ991217\_04.0207.C8.o4.tw  
 Start 2344  
 GI none  
 Exons 2344..2787, 2348..2398, 2422..2733, 2453..2830

Seq. ID OJ991217\_04.0207.C8  
 Strand -  
 End 14924  
 Method TBLASTX:Wheat  
 End 2830  
 Score 52

Seq. No. 21383  
 Gene No. 44710  
 Start 834  
 Name OJ991217\_04.0207.C8.o5.tm  
 Start 2359  
 GI none  
 Exons 2359..2649, 2360..2647

Seq. ID OJ991217\_04.0207.C8  
 Strand -  
 End 14924  
 Method TBLASTX:Maize  
 End 2649  
 Score 276

Seq. No.	21383	Seq. ID	OJ991217_04.0207.C8
Gene No.	44710	Strand	-
Start	834	End	14924
Name	OJ991217_04.0207.C8.o3.tm	Method	TBLASTX:Maize
Start	2717	End	3214
GI	none	Score	171
Exons	2717..2896, 2725..2844, 2903..3214, 3043..3096, 3127..3174		

Seq. No.	21383	Seq. ID	OJ991217_04.0207.C8
Gene No.	44710	Strand	-
Start	834	End	14924
Name	OJ991217_04.0207.C8.o1.ts	Method	TBLASTX:Soybean
Start	2771	End	3166
GI	none	Score	57
Exons	2771..2803, 2773..2802, 2807..3166, 2809..2844, 2875..3165		

Seq. No.	21383	Seq. ID	OJ991217_04.0207.C8
Gene No.	44710	Strand	-
Start	834	End	14924
Name	OJ991217_04.0207.C8.o5.tw	Method	TBLASTX:Wheat
Start	2879	End	3184
GI	none	Score	373
Exons	2879..3184, 2881..3183		

Seq. No.	21383	Seq. ID	OJ991217_04.0207.C8
Gene No.	44710	Strand	-
Start	834	End	14924
Name	OJ991217_04.0207.C8.o3.tw	Method	TBLASTX:Wheat
Start	3186	End	3602
GI	none	Score	566
Exons	3186..3602, 3212..3601		

Seq. No.	21383	Seq. ID	OJ991217_04.0207.C8
Gene No.	44710	Strand	-
Start	834	End	14924
Name	OJ991217_04.0207.C8.o3.ts	Method	TBLASTX:Soybean
Start	3203	End	3431
GI	none	Score	190
Exons	3203..3430, 3204..3431		

Seq. No.	21383	Seq. ID	OJ991217_04.0207.C8
Gene No.	44710	Strand	-
Start	834	End	14924
Name	OJ991217_04.0207.C8.o2.tm	Method	TBLASTX:Maize
Start	3251	End	3614
GI	none	Score	483
Exons	3251..3601, 3252..3605, 3252..3614		

Seq. No.	21383	Seq. ID	OJ991217_04.0207.C8
Gene No.	44710	Strand	-
Start	834	End	14924
Name	OJ991217_04.0207.C8.o2.tw	Method	TBLASTX:Wheat
Start	3605	End	4172
GI	none	Score	641
Exons	3605..4171, 3636..4172		

Seq. No.	21383	Seq. ID	OJ991217_04.0207.C8
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Gene No.	44710	Strand	-
Start	834	End	14924
Name	OJ991217_04.0207.C8.o2.ts	Method	TBLASTX:Soybean
Start	3960	End	4221
GI	none	Score	286
Exons	3960..4220, 3965..4219, 4090..4221		
Seq. No.	21383	Seq. ID	OJ991217_04.0207.C8
Gene No.	44710	Strand	-
Start	834	End	14924
Name	OJ991217_04.0207.C8.o4.tm	Method	TBLASTX:Maize
Start	4019	End	4310
GI	none	Score	364
Exons	4019..4306, 4020..4310		
Seq. No.	21383	Seq. ID	OJ991217_04.0207.C8
Gene No.	44710	Strand	-
Start	834	End	14924
Name	OJ991217_04.0207.C8.o1.tw	Method	TBLASTX:Wheat
Start	4179	End	4805
GI	none	Score	700
Exons	4179..4805, 4235..4693, 4680..4802		
Seq. No.	21383	Seq. ID	OJ991217_04.0207.C8
Gene No.	44710	Strand	-
Start	834	End	14924
Name	OJ991217_04.0207.C8.o1.tm	Method	TBLASTX:Maize
Start	4359	End	4958
GI	none	Score	231
Exons	4359..4520, 4367..4513, 4518..4958, 4520..4942		
Seq. No.	21383	Seq. ID	OJ991217_04.0207.C8
Gene No.	44710	Strand	-
Start	834	End	14924
Name	OJ991217_04.0207.C8.o6.tw	Method	TBLASTX:Wheat
Start	4805	End	5138
GI	none	Score	325
Exons	4805..5074, 4806..5138		
Seq. No.	21383	Seq. ID	OJ991217_04.0207.C8
Gene No.	44710	Strand	-
Start	834	End	14924
Name	OJ991217_04.0207.C8.o2.gp	Method	AAT/GAP
Start	8679	End	14924
GI	uC-osflcyp033a04b1	Score	663
Exons	8679..8729, 14594..14924		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		
Seq. No.	21384	Seq. ID	OJ991217_04.0207.C9
Gene No.	44711	Strand	+
Start	161	End	3542
Name	OJ991217_04.0207.C9.o1.gs	Method	GENSCAN
Start	161	End	3123
GI	none	Score	.47
Exons	161..276, 1894..2278, 2438..2668, 2704..3123		

Seq. No.	21384	Seq. ID	OJ991217_04.0207.C9
Gene No.	44711	Strand	+
Start	161	End	3542
Name	OJ991217_04.0207.C9.o1.np	Method	AAT/NAP
Start	1659	End	3542
GI	6907087	Score	1369
Exons	1659..2041, 2250..2902, 3441..3542		
GI Descrip.	(AP001129) ESTs C72771(E2215), AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	21384	Seq. ID	OJ991217_04.0207.C9
Gene No.	44712	Strand	+
Start	4007	End	4389
Name	OJ991217_04.0207.C9.o1.gp	Method	AAT/GAP
Start	4007	End	4389
GI	uC-osflcyp033a04b1	Score	672
Exons	4007..4389		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	21384	Seq. ID	OJ991217_04.0207.C9
Gene No.	44713	Strand	+
Start	5770	End	6873
Name	OJ991217_04.0207.C9.o3.gs	Method	GENSCAN
Start	5770	End	6873
GI	none	Score	.96
Exons	5770..6873		

Seq. No.	21384	Seq. ID	OJ991217_04.0207.C9
Gene No.	44714	Strand	-
Start	3435	End	4803
Name	OJ991217_04.0207.C9.o2.gs	Method	GENSCAN
Start	3435	End	4803
GI	none	Score	.84
Exons	3435..3541, 3987..4141, 4238..4291, 4745..4803		

Seq. No.	21384	Seq. ID	OJ991217_04.0207.C9
Gene No.	44714	Strand	-
Start	3435	End	4803
Name	OJ991217_04.0207.C9.o2.np	Method	AAT/NAP
Start	3935	End	4141
GI	4680186	Score	227
Exons	3935..4141		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	21384	Seq. ID	OJ991217_04.0207.C9
Gene No.	44715	Strand	-
Start	7407	End	7873
Name	OJ991217_04.0207.C9.o4.gs	Method	GENSCAN
Start	7407	End	7873
GI	none	Score	.57
Exons	7407..7546, 7768..7873		

Seq. No.	21385	Seq. ID	OJ991217_04.0207.C10
Gene No.	44716	Strand	+
Start	871	End	2364

Name	OJ991217_04.0207.C10.o1.gp	Method	AAT/GAP
Start	871	End	1498
GI	2310235	Score	299
Exons	871..908, 1359..1498		
GI Descrip.	5852182/emb CAB55420.1  9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	21385	Seq. ID	OJ991217_04.0207.C10
Gene No.	44716	Strand	+
Start	871	End	2364
Name	OJ991217_04.0207.C10.o1.gs	Method	GENSCAN
Start	1359	End	2144
GI	none	Score	.63
Exons	1359..2144		

Seq. No.	21385	Seq. ID	OJ991217_04.0207.C10
Gene No.	44716	Strand	+
Start	871	End	2364
Name	OJ991217_04.0207.C10.o1.np	Method	AAT/NAP
Start	1359	End	2364
GI	4680203	Score	1100
Exons	1359..2364		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	21385	Seq. ID	OJ991217_04.0207.C10
Gene No.	44716	Strand	+
Start	871	End	2364
Name	OJ991217_04.0207.C10.o1.tw	Method	TBLASTX:Wheat
Start	1673	End	2061
GI	none	Score	98
Exons	1673..1795, 1710..1817, 1800..2051, 1808..2050, 1810..2061		

Seq. No.	21385	Seq. ID	OJ991217_04.0207.C10
Gene No.	44716	Strand	+
Start	871	End	2364
Name	OJ991217_04.0207.C10.o1.ts	Method	TBLASTX:Soybean
Start	1982	End	2363
GI	none	Score	93
Exons	1982..2065, 1983..2057, 2147..2359, 2148..2363, 2247..2363		

Seq. No.	21386	Seq. ID	OJ991217_04.0207.C11
Gene No.	44717	Strand	+
Start	1	End	6942
Name	OJ991217_04.0207.C11.o1.gp	Method	AAT/GAP
Start	1	End	2989
GI	342_1.R1084	Score	4843
Exons	1..2221, 2366..2387, 2465..2989		
GI Descrip.	'4574406/gb AAD24042.1  0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	21386	Seq. ID	OJ991217_04.0207.C11
Gene No.	44717	Strand	+
Start	1	End	6942
Name	OJ991217_04.0207.C11.o2.gp	Method	AAT/GAP
Start	1	End	2942
GI	342_1.R1084	Score	4775
Exons	1..2221, 2366..2387, 2465..2942		

GI Descrip. '4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'

Seq. No.	21386	Seq. ID	OJ991217_04.0207.C11
Gene No.	44717	Strand	+
Start	1	End	6942
Name	OJ991217_04.0207.C11.o3.gp	Method	AAT/GAP
Start	1	End	2904
GI	342_1.R1084	Score	4711
Exons	1..2221, 2366..2387, 2465..2904		
GI Descrip.	'4574406/gb AAD24042.1  0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	21386	Seq. ID	OJ991217_04.0207.C11
Gene No.	44717	Strand	+
Start	1	End	6942
Name	OJ991217_04.0207.C11.o5.gp	Method	AAT/GAP
Start	1	End	3071
GI	342_1.R1084	Score	4967
Exons	1..2221, 2366..2387, 2465..3071		
GI Descrip.	'4574406/gb AAD24042.1  0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	21386	Seq. ID	OJ991217_04.0207.C11
Gene No.	44717	Strand	+
Start	1	End	6942
Name	OJ991217_04.0207.C11.o4.tw	Method	TBLASTX:Wheat
Start	1	End	238
GI	none	Score	118
Exons	1..75, 3..77, 3..74, 55..213, 77..214, 78..206, 204..233, 212..238		

Seq. No.	21386	Seq. ID	OJ991217_04.0207.C11
Gene No.	44717	Strand	+
Start	1	End	6942
Name	OJ991217_04.0207.C11.o1.np	Method	AAT/NAP
Start	1	End	1591
GI	6742729	Score	2412
Exons	1..1591		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	21386	Seq. ID	OJ991217_04.0207.C11
Gene No.	44717	Strand	+
Start	1	End	6942
Name	OJ991217_04.0207.C11.o1.gs	Method	GENSCAN
Start	4	End	2150
GI	none	Score	.68
Exons	4..124, 292..1238, 1560..2150		

Seq. No.	21386	Seq. ID	OJ991217_04.0207.C11
Gene No.	44717	Strand	+
Start	1	End	6942
Name	OJ991217_04.0207.C11.o2.tw	Method	TBLASTX:Wheat
Start	372	End	755
GI	none	Score	51
Exons	372..410, 396..638, 416..598, 672..755		

Seq. No.	21386	Seq. ID	OJ991217_04.0207.C11
Gene No.	44717	Strand	+
Start	1	End	6942
Name	OJ991217_04.0207.C11.o1.tw	Method	TBLASTX:Wheat
Start	758	End	2069
GI	none	Score	847
Exons	758..1660, 759..1676, 1667..1714, 1671..1715, 1718..1780, 1722..1781, 1760..1900, 1761..1901, 1914..1994, 1983..2069		
Seq. No.	21386	Seq. ID	OJ991217_04.0207.C11
Gene No.	44717	Strand	+
Start	1	End	6942
Name	OJ991217_04.0207.C11.o1.tm	Method	TBLASTX:Maize
Start	801	End	1115
GI	none	Score	299
Exons	801..1115, 818..1087, 885..1115		
Seq. No.	21386	Seq. ID	OJ991217_04.0207.C11
Gene No.	44717	Strand	+
Start	1	End	6942
Name	OJ991217_04.0207.C11.o1.tc	Method	TBLASTX:Cress
Start	1042	End	1493
GI	none	Score	112
Exons	1042..1188, 1046..1201, 1046..1489, 1050..1493		
Seq. No.	21386	Seq. ID	OJ991217_04.0207.C11
Gene No.	44717	Strand	+
Start	1	End	6942
Name	OJ991217_04.0207.C11.o2.np	Method	AAT/NAP
Start	1630	End	6942
GI	4038057	Score	109
Exons	1630..1871, 6830..6942		
GI Descrip.	(AC005897) En/Spm-like transposon protein [Arabidopsis thaliana]		
Seq. No.	21386	Seq. ID	OJ991217_04.0207.C11
Gene No.	44717	Strand	+
Start	1	End	6942
Name	OJ991217_04.0207.C11.o2.gs	Method	GENSCAN
Start	3511	End	6922
GI	none	Score	.92
Exons	3511..3648, 3761..3889, 5059..6414, 6510..6651, 6777..6922		
Seq. No.	21386	Seq. ID	OJ991217_04.0207.C11
Gene No.	44717	Strand	+
Start	1	End	6942
Name	OJ991217_04.0207.C11.o3.np	Method	AAT/NAP
Start	4978	End	6942
GI	4680204	Score	924
Exons	4978..6414, 6510..6942		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		
Seq. No.	21386	Seq. ID	OJ991217_04.0207.C11
Gene No.	44717	Strand	+
Start	1	End	6942
Name	OJ991217_04.0207.C11.o3.tw	Method	TBLASTX:Wheat
Start	5621	End	6024
GI	none	Score	221

Exons	5621..5737, 5623..5859, 5623..5817, 5724..5891, 5854..6024	
Seq. No.	21386	Seq. ID OJ991217_04.0207.C11
Gene No.	44717	Strand +
Start	1	End 6942
Name	OJ991217_04.0207.C11.o5.tw	Method TBLASTX:Wheat
Start	6025	End 6722
GI	none	Score 70
Exons	6025..6105, 6345..6416, 6346..6420, 6503..6577, 6504..6722	
Seq. No.	21387	Seq. ID OJ991217_04.0207.C12
Gene No.	44718	Strand +
Start	120	End 1120
Name	OJ991217_04.0207.C12.o1.gs	Method GENSCAN
Start	120	End 1120
GI	none	Score .88
Exons	120..293, 355..500, 585..657, 938..1120	
Seq. No.	21387	Seq. ID OJ991217_04.0207.C12
Gene No.	44719	Strand -
Start	2256	End 2799
Name	OJ991217_04.0207.C12.o2.gs	Method GENSCAN
Start	2256	End 2799
GI	none	Score .76
Exons	2256..2320, 2370..2799	
Seq. No.	21387	Seq. ID OJ991217_04.0207.C12
Gene No.	44719	Strand -
Start	2256	End 2799
Name	OJ991217_04.0207.C12.o1.tm	Method TBLASTX:Maize
Start	2500	End 2721
GI	none	Score 113
Exons	2500..2601, 2500..2601, 2504..2617, 2609..2719, 2609..2665, 2614..2718, 2689..2721	
Seq. No.	21388	Seq. ID OJ991217_04.0207.C13
Gene No.	44720	Strand +
Start	1407	End 4019
Name	OJ991217_04.0207.C13.o1.gs	Method GENSCAN
Start	1407	End 4007
GI	none	Score .99
Exons	1407..2333, 3417..4007	
Seq. No.	21388	Seq. ID OJ991217_04.0207.C13
Gene No.	44720	Strand +
Start	1407	End 4019
Name	OJ991217_04.0207.C13.o1.np	Method AAT/NAP
Start	1407	End 4010
GI	1237250	Score 1549
Exons	1407..2333, 3417..4010	
GI Descrip.	(X96784) cytochrome P450 [Nicotiana tabacum]	
Seq. No.	21388	Seq. ID OJ991217_04.0207.C13
Gene No.	44720	Strand +
Start	1407	End 4019
Name	OJ991217_04.0207.C13.o1.ts	Method TBLASTX:Soybean
Start	1449	End 4019

GI none Score 503  
Exons 1449..1496, 1452..1625, 1503..1901, 1505..1807, 1905..2000, 1925..1996, 2021..2164, 2022..2219, 2070..2195, 2235..2333, 2237..2320, 2239..2334, 3407..4018, 3414..4019

Seq. No. 21388 Seq. ID OJ991217\_04.0207.C13  
Gene No. 44720 Strand +  
Start 1407 End 4019  
Name OJ991217\_04.0207.C13.o2.tm Method TBLASTX:Maize  
Start 1488 End 1874  
GI none Score 511  
Exons 1488..1625, 1503..1874, 1505..1807, 1791..1874

Seq. No. 21388 Seq. ID OJ991217\_04.0207.C13  
Gene No. 44720 Strand +  
Start 1407 End 4019  
Name OJ991217\_04.0207.C13.o2.tw Method TBLASTX:Wheat  
Start 1506 End 1826  
GI none Score 248  
Exons 1506..1826, 1508..1714

Seq. No. 21388 Seq. ID OJ991217\_04.0207.C13  
Gene No. 44720 Strand +  
Start 1407 End 4019  
Name OJ991217\_04.0207.C13.o1.tc Method TBLASTX:Cress  
Start 1508 End 4019  
GI none Score 175  
Exons 1508..1771, 1509..1772, 3407..3934, 3408..3935, 3945..4019

Seq. No. 21388 Seq. ID OJ991217\_04.0207.C13  
Gene No. 44720 Strand +  
Start 1407 End 4019  
Name OJ991217\_04.0207.C13.o3.tm Method TBLASTX:Maize  
Start 1877 End 2168  
GI none Score 140  
Exons 1877..2029, 1878..2039, 2021..2164, 2022..2168

Seq. No. 21388 Seq. ID OJ991217\_04.0207.C13  
Gene No. 44720 Strand +  
Start 1407 End 4019  
Name OJ991217\_04.0207.C13.o1.tm Method TBLASTX:Maize  
Start 2175 End 4019  
GI none Score 179  
Exons 2175..2333, 2178..2333, 2236..2334, 3408..4019, 3413..4018

Seq. No. 21388 Seq. ID OJ991217\_04.0207.C13  
Gene No. 44720 Strand +  
Start 1407 End 4019  
Name OJ991217\_04.0207.C13.o1.tw Method TBLASTX:Wheat  
Start 3383 End 3716  
GI none Score 265  
Exons 3383..3715, 3384..3716

Seq. No. 21388 Seq. ID OJ991217\_04.0207.C13  
Gene No. 44720 Strand +  
Start 1407 End 4019  
Name OJ991217\_04.0207.C13.o3.tw Method TBLASTX:Wheat

Start 3743  
 GI none  
 Exons 3743..3997, 3750..3989

End 3997  
 Score 239

Seq. No. 21389 Seq. ID OJ991217\_04.0207.C14  
 Gene No. 44721 Strand +  
 Start 146 End 541  
 Name OJ991217\_04.0207.C14.o1.np Method AAT/NAP  
 Start 146 End 541  
 GI 2462058 Score 151  
 Exons 146..541  
 GI Descrip. (Y13389) reverse transcriptase [Antirrhinum majus]

Seq. No. 21389 Seq. ID OJ991217\_04.0207.C14  
 Gene No. 44722 Strand -  
 Start 979 End 1450  
 Name OJ991217\_04.0207.C14.o1.tw Method TBLASTX:Wheat  
 Start 241 End 459  
 GI none Score 191  
 Exons 241..459, 243..437

Seq. No. 21389 Seq. ID OJ991217\_04.0207.C14  
 Gene No. 44722 Strand -  
 Start 979 End 1450  
 Name OJ991217\_04.0207.C14.o1.tm Method TBLASTX:Maize  
 Start 256 End 480  
 GI none Score 217  
 Exons 256..480, 259..465

Seq. No. 21389 Seq. ID OJ991217\_04.0207.C14  
 Gene No. 44722 Strand -  
 Start 979 End 1450  
 Name OJ991217\_04.0207.C14.o1.gs Method GENSCAN  
 Start 979 End 1450  
 GI none Score .75  
 Exons 979..1073, 1399..1450

Seq. No. 21390 Seq. ID OJ991217\_04.0207.C16  
 Gene No. 44723 Strand +  
 Start 2322 End 6472  
 Name OJ991217\_04.0207.C16.o1.gs Method GENSCAN  
 Start 2322 End 3482  
 GI none Score .86  
 Exons 2322..2411, 3255..3482

Seq. No. 21390 Seq. ID OJ991217\_04.0207.C16  
 Gene No. 44723 Strand +  
 Start 2322 End 6472  
 Name OJ991217\_04.0207.C16.o1.np Method AAT/NAP  
 Start 2716 End 6472  
 GI 5042463 Score 126  
 Exons 2716..2934, 3587..3933, 4642..4716, 6435..6472  
 GI Descrip. (AC007789) unknown protein [Oryza sativa]

Seq. No. 21390 Seq. ID OJ991217\_04.0207.C16  
 Gene No. 44724 Strand +  
 Start 8614 End 8876



Name	OJ991217_04.0207.C16.o3.np	Method	AAT/NAP
Start	8614	End	8876
GI	1171579	Score	256
Exons	8614..8876		
GI Descrip.	(X95342) cytochrome P450 [Nicotiana tabacum]		

Seq. No.	21390	Seq. ID	OJ991217_04.0207.C16
Gene No.	44725	Strand	+
Start	9169	End	9572
Name	OJ991217_04.0207.C16.o4.np	Method	AAT/NAP
Start	9169	End	9572
GI	2462058	Score	173
Exons	9169..9572		
GI Descrip.	(Y13389) reverse transcriptase [Antirrhinum majus]		

Seq. No.	21390	Seq. ID	OJ991217_04.0207.C16
Gene No.	44726	Strand	-
Start	3476	End	9572
Name	OJ991217_04.0207.C16.o2.np	Method	AAT/NAP
Start	3476	End	9572
GI	4585985	Score	1315
Exons	3476..3499, 4742..5936, 6247..7786, 7887..7999, 9546..9572		
GI Descrip.	(AC005287) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	21390	Seq. ID	OJ991217_04.0207.C16
Gene No.	44726	Strand	-
Start	3476	End	9572
Name	OJ991217_04.0207.C16.o2.gs	Method	GENSCAN
Start	4556	End	8839
GI	none	Score	.62
Exons	4556..4687, 5057..5417, 5596..5736, 5859..6075, 6175..6741, 6796..6969, 7390..7786, 8249..8839		

Seq. No.	21390	Seq. ID	OJ991217_04.0207.C16
Gene No.	44726	Strand	-
Start	3476	End	9572
Name	OJ991217_04.0207.C16.o3.tm	Method	TBLASTX:Maize
Start	4847	End	5156
GI	none	Score	64
Exons	4847..4912, 4848..4931, 4850..4930, 4927..5046, 5045..5155, 5046..5156		

Seq. No.	21390	Seq. ID	OJ991217_04.0207.C16
Gene No.	44726	Strand	-
Start	3476	End	9572
Name	OJ991217_04.0207.C16.o2.tw	Method	TBLASTX:Wheat
Start	5014	End	5380
GI	none	Score	37
Exons	5014..5046, 5015..5041, 5045..5218, 5046..5219, 5222..5278, 5267..5380, 5286..5369		

Seq. No.	21390	Seq. ID	OJ991217_04.0207.C16
Gene No.	44726	Strand	-
Start	3476	End	9572
Name	OJ991217_04.0207.C16.o4.tm	Method	TBLASTX:Maize
Start	5324	End	5517
GI	none	Score	165

Exons 5324..5509, 5326..5517, 5328..5516

Seq. No.	21390	Seq. ID	OJ991217_04.0207.C16
Gene No.	44726	Strand	-
Start	3476	End	9572
Name	OJ991217_04.0207.C16.o1.tm	Method	TBLASTX:Maize
Start	6158	End	6557
GI	none	Score	176
Exons	6158..6556, 6166..6447, 6174..6557		

Seq. No.	21390	Seq. ID	OJ991217_04.0207.C16
Gene No.	44726	Strand	-
Start	3476	End	9572
Name	OJ991217_04.0207.C16.o6.tm	Method	TBLASTX:Maize
Start	7406	End	7750
GI	none	Score	141
Exons	7406..7570, 7565..7750		

Seq. No.	21390	Seq. ID	OJ991217_04.0207.C16
Gene No.	44726	Strand	-
Start	3476	End	9572
Name	OJ991217_04.0207.C16.o1.tw	Method	TBLASTX:Wheat
Start	7442	End	7790
GI	none	Score	130
Exons	7442..7732, 7442..7762, 7488..7763, 7593..7790		

Seq. No.	21390	Seq. ID	OJ991217_04.0207.C16
Gene No.	44726	Strand	-
Start	3476	End	9572
Name	OJ991217_04.0207.C16.o1.tc	Method	TBLASTX:Cress
Start	8606	End	8831
GI	none	Score	214
Exons	8606..8827, 8607..8831		

Seq. No.	21390	Seq. ID	OJ991217_04.0207.C16
Gene No.	44726	Strand	-
Start	3476	End	9572
Name	OJ991217_04.0207.C16.o1.ts	Method	TBLASTX:Soybean
Start	8606	End	8873
GI	none	Score	300
Exons	8606..8869, 8607..8873		

Seq. No.	21390	Seq. ID	OJ991217_04.0207.C16
Gene No.	44726	Strand	-
Start	3476	End	9572
Name	OJ991217_04.0207.C16.o2.tm	Method	TBLASTX:Maize
Start	8606	End	8899
GI	none	Score	348
Exons	8606..8878, 8607..8879, 8627..8899, 8785..8883		

Seq. No.	21390	Seq. ID	OJ991217_04.0207.C16
Gene No.	44726	Strand	-
Start	3476	End	9572
Name	OJ991217_04.0207.C16.o3.tw	Method	TBLASTX:Wheat
Start	8607	End	8830
GI	none	Score	203
Exons	8607..8822, 8624..8830		

Seq. No.	21390	Seq. ID	OJ991217_04.0207.C16
Gene No.	44726	Strand	-
Start	3476	End	9572
Name	OJ991217_04.0207.C16.o4.tw	Method	TBLASTX:Wheat
Start	9272	End	9538
GI	none	Score	175
Exons	9272..9538, 9280..9474		

Seq. No.	21390	Seq. ID	OJ991217_04.0207.C16
Gene No.	44726	Strand	-
Start	3476	End	9572
Name	OJ991217_04.0207.C16.o5.tm	Method	TBLASTX:Maize
Start	9284	End	9544
GI	none	Score	229
Exons	9284..9544, 9286..9330, 9458..9538		

Seq. No.	21391	Seq. ID	OJ991217_04.0207.C17
Gene No.	44727	Strand	+
Start	3307	End	7620
Name	OJ991217_04.0207.C17.o2.gs	Method	GENSCAN
Start	3307	End	7620
GI	none	Score	.62
Exons	3307..3369, 4277..6808, 6844..7620		

Seq. No.	21391	Seq. ID	OJ991217_04.0207.C17
Gene No.	44727	Strand	+
Start	3307	End	7620
Name	OJ991217_04.0207.C17.o2.np	Method	AAT/NAP
Start	4775	End	6760
GI	5911167	Score	1289
Exons	4775..6760		
GI Descrip.	(AF136221) putative transposase protein [Zea mays]		

Seq. No.	21391	Seq. ID	OJ991217_04.0207.C17
Gene No.	44728	Strand	+
Start	9277	End	12996
Name	OJ991217_04.0207.C17.o4.gs	Method	GENSCAN
Start	9277	End	12996
GI	none	Score	.99
Exons	9277..9474, 9565..11831, 11917..12168, 12449..12530, 12805..12996		

Seq. No.	21391	Seq. ID	OJ991217_04.0207.C17
Gene No.	44729	Strand	+
Start	20145	End	23754
Name	OJ991217_04.0207.C17.o6.gs	Method	GENSCAN
Start	20145	End	23754
GI	none	Score	.44
Exons	20145..20216, 23122..23754		

Seq. No.	21391	Seq. ID	OJ991217_04.0207.C17
Gene No.	44729	Strand	+
Start	20145	End	23754
Name	OJ991217_04.0207.C17.o3.np	Method	AAT/NAP
Start	21219	End	23715
GI	1237250	Score	681

Exons 21219..21258, 23114..23715  
GI Descrip. (X96784) cytochrome P450 [Nicotiana tabacum]

Seq. No.	21391	Seq. ID	OJ991217_04.0207.C17
Gene No.	44730	Strand	-
Start	1	End	759
Name	OJ991217_04.0207.C17.o1.np	Method	AAT/NAP
Start	1	End	759
GI	6721547	Score	80
Exons	1..23, 675..759		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		

Seq. No.	21391	Seq. ID	OJ991217_04.0207.C17
Gene No.	44731	Strand	-
Start	2073	End	2674
Name	OJ991217_04.0207.C17.o1.gs	Method	GENSCAN
Start	2073	End	2674
GI	none	Score	.81
Exons	2073..2230, 2557..2674		

Seq. No.	21391	Seq. ID	OJ991217_04.0207.C17
Gene No.	44732	Strand	-
Start	7912	End	8631
Name	OJ991217_04.0207.C17.o3.gs	Method	GENSCAN
Start	7912	End	8631
GI	none	Score	.97
Exons	7912..8487, 8551..8631		

Seq. No.	21391	Seq. ID	OJ991217_04.0207.C17
Gene No.	44733	Strand	-
Start	13183	End	13647
Name	OJ991217_04.0207.C17.o5.gs	Method	GENSCAN
Start	13183	End	13647
GI	none	Score	.83
Exons	13183..13647		

Seq. No.	21391	Seq. ID	OJ991217_04.0207.C17
Gene No.	44734	Strand	-
Start	25398	End	25565
Name	OJ991217_04.0207.C17.o2.tw	Method	TBLASTX:Wheat
Start	4772	End	5365
GI	none	Score	229
Exons	4772..5062, 4774..5064, 5120..5236, 5123..5221, 5240..5365, 5257..5364		

Seq. No.	21391	Seq. ID	OJ991217_04.0207.C17
Gene No.	44734	Strand	-
Start	25398	End	25565
Name	OJ991217_04.0207.C17.o2.ts	Method	TBLASTX:Soybean
Start	4790	End	5062
GI	none	Score	292
Exons	4790..5062, 4807..5055		

Seq. No.	21391	Seq. ID	OJ991217_04.0207.C17
Gene No.	44734	Strand	-
Start	25398	End	25565
Name	OJ991217_04.0207.C17.o3.ts	Method	TBLASTX:Soybean

Start 5105  
 GI none  
 Exons 5105..5380, 5140..5379

End 5380  
 Score 221

Seq. No. 21391 Seq. ID OJ991217\_04.0207.C17  
 Gene No. 44734 Strand -  
 Start 25398 End 25565  
 Name OJ991217\_04.0207.C17.o2.tc Method TBLASTX:Cress  
 Start 5129 End 5461  
 GI none Score 288  
 Exons 5129..5461, 5215..5265, 5299..5406

Seq. No. 21391 Seq. ID OJ991217\_04.0207.C17  
 Gene No. 44734 Strand -  
 Start 25398 End 25565  
 Name OJ991217\_04.0207.C17.o3.tm Method TBLASTX:Maize  
 Start 5267 End 5752  
 GI none Score 102  
 Exons 5267..5371, 5275..5370, 5374..5466, 5378..5467, 5535..5570, 5564..5611, 5612..5659, 5659..5748, 5663..5752

Seq. No. 21391 Seq. ID OJ991217\_04.0207.C17  
 Gene No. 44734 Strand -  
 Start 25398 End 25565  
 Name OJ991217\_04.0207.C17.o5.tw Method TBLASTX:Wheat  
 Start 5366 End 5701  
 GI none Score 57  
 Exons 5366..5407, 5411..5509, 5413..5502, 5555..5653, 5566..5637, 5663..5701

Seq. No. 21391 Seq. ID OJ991217\_04.0207.C17  
 Gene No. 44734 Strand -  
 Start 25398 End 25565  
 Name OJ991217\_04.0207.C17.o2.tm Method TBLASTX:Maize  
 Start 6257 End 6640  
 GI none Score 59  
 Exons 6257..6325, 6325..6639, 6326..6640

Seq. No. 21391 Seq. ID OJ991217\_04.0207.C17  
 Gene No. 44734 Strand -  
 Start 25398 End 25565  
 Name OJ991217\_04.0207.C17.o1.tw Method TBLASTX:Wheat  
 Start 6281 End 7413  
 GI none Score 395  
 Exons 6281..6778, 6334..6789, 6796..6996, 7005..7187, 7015..7203, 7180..7281, 7191..7310, 7312..7413, 7314..7406

Seq. No. 21391 Seq. ID OJ991217\_04.0207.C17  
 Gene No. 44734 Strand -  
 Start 25398 End 25565  
 Name OJ991217\_04.0207.C17.o3.tc Method TBLASTX:Cress  
 Start 6572 End 6996  
 GI none Score 172  
 Exons 6572..6778, 6580..6789, 6796..6996

Seq. No. 21391 Seq. ID OJ991217\_04.0207.C17  
 Gene No. 44734 Strand -

Start	25398	End	25565
Name	OJ991217_04.0207.C17.o4.tm	Method	TBLASTX:Maize
Start	6889	End	7179
GI	none	Score	146
Exons	6889..7059, 6937..7053, 7071..7178, 7072..7179		

Seq. No.	21391	Seq. ID	OJ991217_04.0207.C17
Gene No.	44734	Strand	-
Start	25398	End	25565
Name	OJ991217_04.0207.C17.o4.ts	Method	TBLASTX:Soybean
Start	7261	End	7473
GI	none	Score	187
Exons	7261..7473, 7261..7419		

Seq. No.	21391	Seq. ID	OJ991217_04.0207.C17
Gene No.	44734	Strand	-
Start	25398	End	25565
Name	OJ991217_04.0207.C17.o3.tw	Method	TBLASTX:Wheat
Start	23107	End	23421
GI	none	Score	271
Exons	23107..23421, 23112..23420		

Seq. No.	21391	Seq. ID	OJ991217_04.0207.C17
Gene No.	44734	Strand	-
Start	25398	End	25565
Name	OJ991217_04.0207.C17.o1.ts	Method	TBLASTX:Soybean
Start	23112	End	23745
GI	none	Score	770
Exons	23112..23741, 23119..23745		

Seq. No.	21391	Seq. ID	OJ991217_04.0207.C17
Gene No.	44734	Strand	-
Start	25398	End	25565
Name	OJ991217_04.0207.C17.o1.tc	Method	TBLASTX:Cress
Start	23113	End	23724
GI	none	Score	532
Exons	23113..23640, 23136..23630, 23650..23724		

Seq. No.	21391	Seq. ID	OJ991217_04.0207.C17
Gene No.	44734	Strand	-
Start	25398	End	25565
Name	OJ991217_04.0207.C17.o1.tm	Method	TBLASTX:Maize
Start	23113	End	23760
GI	none	Score	762
Exons	23113..23760, 23118..23738, 23650..23760		

Seq. No.	21391	Seq. ID	OJ991217_04.0207.C17
Gene No.	44734	Strand	-
Start	25398	End	25565
Name	OJ991217_04.0207.C17.o4.tw	Method	TBLASTX:Wheat
Start	23448	End	23702
GI	none	Score	260
Exons	23448..23702, 23455..23694		

Seq. No.	21391	Seq. ID	OJ991217_04.0207.C17
Gene No.	44734	Strand	-
Start	25398	End	25565

Name OJ991217\_04.0207.C17.o7.gs  
 Start 25398  
 GI none  
 Exons 25398..25565

Method GENSCAN  
 End 25565  
 Score .94

Seq. No. 21392  
 Gene No. 44735  
 Start 300  
 Name OJ991217\_04.0207.C18.o1.gs  
 Start 300  
 GI none  
 Exons 300..470, 1169..1253

Seq. ID OJ991217\_04.0207.C18  
 Strand +  
 End 1253  
 Method GENSCAN  
 End 1253  
 Score .53

Seq. No. 21393  
 Gene No. 44736  
 Start 7939  
 Name OJ991217\_04.0207.C19.o2.np  
 Start 7939  
 GI 4680183  
 Exons 7939..8009, 8617..8706

Seq. ID OJ991217\_04.0207.C19  
 Strand +  
 End 8706  
 Method AAT/NAP  
 End 8706  
 Score 188

GI Descrip. (AF111709) gag-pol protein [Oryza sativa subsp. indica]

Seq. No. 21393  
 Gene No. 44737  
 Start 1251  
 Name OJ991217\_04.0207.C19.o1.np  
 Start 1251  
 GI 114409  
 Exons 1251..2777

Seq. ID OJ991217\_04.0207.C19  
 Strand -  
 End 2777  
 Method AAT/NAP  
 End 2777  
 Score 2520

GI Descrip. ATP SYNTHASE ALPHA CHAIN, MITOCHONDRIAL gi|67822|pir||PWRZAM  
 H+-transporting ATP synthase (EC 3.6.1.34) alpha chain - rice  
 mitochondrion gi|13959|emb|CAA35787| (X51422) F-1-ATPase alpha  
 subunit (AA 1-509) [Oryza sativa]

Seq. No. 21393  
 Gene No. 44737  
 Start 1251  
 Name OJ991217\_04.0207.C19.o1.tw  
 Start 1296  
 GI none  
 Exons 1296..1343, 1297..1338, 1314..1394, 1319..1393, 1335..1394,  
 1371..1451, 1374..1451, 1385..1456, 1396..1452, 1451..1513,  
 1452..1514, 1513..1572, 1514..1573, 1515..1628, 1515..1598,  
 1539..1631, 1549..1635, 1574..1657, 1575..1658

Seq. ID OJ991217\_04.0207.C19  
 Strand -  
 End 2777  
 Method TBLASTX:Wheat  
 End 1658  
 Score 48

Seq. No. 21393  
 Gene No. 44737  
 Start 1251  
 Name OJ991217\_04.0207.C19.o2.ts  
 Start 1350  
 GI none  
 Exons 1350..1724, 1408..1722

Seq. ID OJ991217\_04.0207.C19  
 Strand -  
 End 2777  
 Method TBLASTX:Soybean  
 End 1724  
 Score 202

Seq. No. 21393  
 Gene No. 44737  
 Start 1251  
 Name OJ991217\_04.0207.C19.o3.tc

Seq. ID OJ991217\_04.0207.C19  
 Strand -  
 End 2777  
 Method TBLASTX:Cress

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Start 1377  
GI none  
Exons 1377..1619, 1408..1620

End 1620  
Score 104

Seq. No. 21393  
Gene No. 44737  
Start 1251  
Name OJ991217\_04.0207.C19.o2.tm  
Start 1545  
GI none  
Exons 1545..1721, 1546..1722

Seq. ID OJ991217\_04.0207.C19  
Strand -  
End 2777  
Method TBLASTX:Maize  
End 1722  
Score 174

Seq. No. 21393  
Gene No. 44737  
Start 1251  
Name OJ991217\_04.0207.C19.o2.tc  
Start 1622  
GI none  
Exons 1622..1909, 1629..1913, 1630..1914

Seq. ID OJ991217\_04.0207.C19  
Strand -  
End 2777  
Method TBLASTX:Cress  
End 1914  
Score 302

Seq. No. 21393  
Gene No. 44737  
Start 1251  
Name OJ991217\_04.0207.C19.o1.ts  
Start 1872  
GI none  
Exons 1872..2186, 1939..2166, 2202..2421..2714

Seq. ID OJ991217\_04.0207.C19  
Strand -  
End 2777  
Method TBLASTX:Soybean  
End 2762  
Score 123

Seq. No. 21393  
Gene No. 44737  
Start 1251  
Name OJ991217\_04.0207.C19.o2.tw  
Start 2217  
GI none  
Exons 2217..2519, 2299..2520

Seq. ID OJ991217\_04.0207.C19  
Strand -  
End 2777  
Method TBLASTX:Wheat  
End 2520  
Score 75

Seq. No. 21393  
Gene No. 44737  
Start 1251  
Name OJ991217\_04.0207.C19.o1.tc  
Start 2298  
GI none  
Exons 2298..2687, 2298..2762, 2299..2691

Seq. ID OJ991217\_04.0207.C19  
Strand -  
End 2777  
Method TBLASTX:Cress  
End 2762  
Score 142

Seq. No. 21393  
Gene No. 44737  
Start 1251  
Name OJ991217\_04.0207.C19.o1.tm  
Start 2440  
GI none  
Exons 2440..2694, 2442..2765

Seq. ID OJ991217\_04.0207.C19  
Strand -  
End 2777  
Method TBLASTX:Maize  
End 2765  
Score 245

Seq. No. 21394  
Gene No. 44738  
Start 842  
Name OJ991217\_04.0207.C20.o1.gs

Seq. ID OJ991217\_04.0207.C20  
Strand -  
End 1598  
Method GENSCAN



Start 842  
GI none  
Exons 842..1435

End 1435  
Score .96

Seq. No. 21394 Seq. ID OJ991217\_04.0207.C20  
Gene No. 44738 Strand -  
Start 842 End 1598  
Name OJ991217\_04.0207.C20.o1.np Method AAT/NAP  
Start 845 End 1598  
GI 4680179 Score 1080  
Exons 845..1598  
GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. No. 21394 Seq. ID OJ991217\_04.0207.C20  
Gene No. 44738 Strand -  
Start 842 End 1598  
Name OJ991217\_04.0207.C20.o1.tw Method TBLASTX:Wheat  
Start 855 End 1329  
GI none Score 35  
Exons 855..908, 890..1312, 911..1072, 1014..1130, 1090..1191,  
1115..1195, 1170..1292, 1288..1329

Seq. No. 21394 Seq. ID OJ991217\_04.0207.C20  
Gene No. 44738 Strand -  
Start 842 End 1598  
Name OJ991217\_04.0207.C20.o2.tm Method TBLASTX:Maize  
Start 869 End 1066  
GI none Score 197  
Exons 869..1066

Seq. No. 21394 Seq. ID OJ991217\_04.0207.C20  
Gene No. 44738 Strand -  
Start 842 End 1598  
Name OJ991217\_04.0207.C20.o1.tm Method TBLASTX:Maize  
Start 1070 End 1475  
GI none Score 231  
Exons 1070..1474, 1083..1475

Seq. No. 21394 Seq. ID OJ991217\_04.0207.C20  
Gene No. 44738 Strand -  
Start 842 End 1598  
Name OJ991217\_04.0207.C20.o2.tw Method TBLASTX:Wheat  
Start 1331 End 1475  
GI none Score 86  
Exons 1331..1474, 1332..1475

Seq. No. 21395 Seq. ID OJ991217\_04.0207.C21  
Gene No. 44739 Strand +  
Start 1 End 925  
Name OJ991217\_04.0207.C21.o1.np Method AAT/NAP  
Start 1 End 925  
GI 4680186 Score 72  
Exons 1..67, 903..925  
GI Descrip. (AF111709) unknown [Oryza sativa subsp. indica]

Seq. No. 21396 Seq. ID OJ991217\_04.0207.C22  
Gene No. 44740 Strand +

Start	1	End	947
Name	OJ991217_04.0207.C22.o1.np	Method	AAT/NAP
Start	1	End	947
GI	1350857	Score	96
Exons	1..220, 847..947		
GI Descrip.	DNA-DIRECTED RNA POLYMERASE BETA" CHAIN gi 1016172 (U30821) beta prime subunit of RNA polymerase [Cyanophora paradoxa]		

Seq. No.	21396	Seq. ID	OJ991217_04.0207.C22
Gene No.	44740	Strand	+
Start	1	End	947
Name	OJ991217_04.0207.C22.o1.gs	Method	GENSCAN
Start	633	End	824
GI	none	Score	.74
Exons	633..824		

Seq. No.	21397	Seq. ID	OJ991217_04.0207.C24
Gene No.	44741	Strand	-
Start	1	End	315
Name	OJ991217_04.0207.C24.o1.np	Method	AAT/NAP
Start	1	End	305
GI	462012	Score	341
Exons	1..305		
GI Descrip.	ENOLASE (2-PHOSPHOGLYCERATE DEHYDRATASE) (2-PHOSPHO-D-GLYCERATE HYDRO-LYASE) gi 538726 pir  A45732 phosphopyruvate hydratase (EC 4.2.1.11) - Zymomonas mobilis gi 155581 (M99380) enolase [Zymomonas mobilis]		

Seq. No.	21397	Seq. ID	OJ991217_04.0207.C24
Gene No.	44741	Strand	-
Start	1	End	315
Name	OJ991217_04.0207.C24.o1.tc	Method	TBLASTX:Cress
Start	24	End	315
GI	none	Score	91
Exons	24..308, 178..315		

Seq. No.	21397	Seq. ID	OJ991217_04.0207.C24
Gene No.	44741	Strand	-
Start	1	End	315
Name	OJ991217_04.0207.C24.o1.ts	Method	TBLASTX:Soybean
Start	24	End	308
GI	none	Score	126
Exons	24..308, 178..282		

Seq. No.	21397	Seq. ID	OJ991217_04.0207.C24
Gene No.	44741	Strand	-
Start	1	End	315
Name	OJ991217_04.0207.C24.o1.tw	Method	TBLASTX:Wheat
Start	24	End	302
GI	none	Score	123
Exons	24..296, 178..282, 231..302, 233..301		

Seq. No.	21397	Seq. ID	OJ991217_04.0207.C24
Gene No.	44741	Strand	-
Start	1	End	315
Name	OJ991217_04.0207.C24.o1.tm	Method	TBLASTX:Maize
Start	24	End	296

GI none  
Exons 24..296, 178..282

Score 123

Seq. No. 21397  
Gene No. 44741  
Start 1  
Name OJ991217\_04.0207.C24.o1.gs  
Start 42  
GI none  
Exons 42..305

Seq. ID OJ991217\_04.0207.C24  
Strand -  
End 315  
Method GENSCAN  
End 305  
Score .96

Seq. No. 21398  
Gene No. 44742  
Start 138  
Name OJ991217\_04.0207.C25.o1.gs  
Start 138  
GI none  
Exons 138..224, 336..437

Seq. ID OJ991217\_04.0207.C25  
Strand +  
End 437  
Method GENSCAN  
End 437  
Score .79

Seq. No. 21399  
Gene No. 44743  
Start 1  
Name OJ991117\_03.0222.C1.o1.np  
Start 1  
GI 5091513  
Exons 1..629  
GI Descrip. (AB023482) Hypothetical protein [Oryza sativa]

Seq. ID OJ991117\_03.0222.C1  
Strand +  
End 629  
Method AAT/NAP  
End 629  
Score 852

Seq. No. 21399  
Gene No. 44743  
Start 1  
Name OJ991117\_03.0222.C1.o1.gs  
Start 22  
GI none  
Exons 22..616

Seq. ID OJ991117\_03.0222.C1  
Strand +  
End 629  
Method GENSCAN  
End 616  
Score .9

Seq. No. 21400  
Gene No. 44744  
Start 1  
Name OJ991117\_03.0222.C3.o1.np  
Start 1  
GI 5091513  
Exons 1..671  
GI Descrip. (AB023482) Hypothetical protein [Oryza sativa]

Seq. ID OJ991117\_03.0222.C3  
Strand -  
End 671  
Method AAT/NAP  
End 671  
Score 851

Seq. No. 21401  
Gene No. 44745  
Start 1035  
Name OJ991117\_03.0222.C4.o1.gp  
Start 1035  
GI none  
Exons 1035..1216, 2390..2591

Seq. ID OJ991117\_03.0222.C4  
Strand +  
End 3507  
Method AAT/GAP  
End 2591  
Score 728

Seq. No. 21401  
Gene No. 44745  
Start 1035  
Name OJ991117\_03.0222.C4.o1.gs

Seq. ID OJ991117\_03.0222.C4  
Strand +  
End 3507  
Method GENSCAN

Start	1121	End	3507
GI	none	Score	.82
Exons	1121..1334, 2048..2075, 3189..3507		

Seq. No.	21401	Seq. ID	OJ991117_03.0222.C4
Gene No.	44746	Strand	+
Start	10176	End	12602
Name	OJ991117_03.0222.C4.o2.gp		
Start	10176	Method	AAT/GAP
GI	17707_1.R1084	End	12602
Exons	Score 1234		
GI Descrip.	10176..10297, 11804..11903, 12022..12168, 12287..12602		
	'2129742/pir  S59544 1.0e-22 stress-induced protein OZII precursor - Arabidopsis thaliana >gi_790583 (U20347) mRNA corresponding to this gene accumulates in response to ozone stress and pathogen (bacterial) infection; putative pathogenesis-related protein [Arabidopsis thaliana] >gi_2252869 (AF013294) No definition line found [Arabidopsis thaliana]'		

Seq. No.	21401	Seq. ID	OJ991117_03.0222.C4
Gene No.	44747	Strand	+
Start	14336	End	15856
Name	OJ991117_03.0222.C4.o3.gp		
Start	14336	Method	AAT/GAP
GI	2442481	End	15515
Exons	Score 514		
	14336..14436, 14738..14890, 15475..15515		

Seq. No.	21401	Seq. ID	OJ991117_03.0222.C4
Gene No.	44747	Strand	+
Start	14336	End	15856
Name	OJ991117_03.0222.C4.o3.gs		
Start	14802	Method	GENSCAN
GI	none	End	15856
Exons	Score .99		
	14802..14890, 15475..15856		

Seq. No.	21401	Seq. ID	OJ991117_03.0222.C4
Gene No.	44748	Strand	+
Start	27700	End	31851
Name	OJ991117_03.0222.C4.o6.gs		
Start	27700	Method	GENSCAN
GI	none	End	31826
Exons	Score .77		
	27700..27719, 28586..28649, 29639..29863, 29959..30084, 30516..30653, 30760..30855, 31024..31266, 31357..31591, 31719..31826		

Seq. No.	21401	Seq. ID	OJ991117_03.0222.C4
Gene No.	44748	Strand	+
Start	27700	End	31851
Name	OJ991117_03.0222.C4.o4.np		
Start	29645	Method	AAT/NAP
GI	1762130	End	31851
Exons	Score 1382		
GI Descrip.	29645..29863, 29959..30084, 30516..30653, 30760..30855, 31024..31266, 31357..31591, 31719..31851		
	(U46136) chaperonin-60 beta subunit [Solanum tuberosum]		

Seq. No.	21401	Seq. ID	OJ991117_03.0222.C4
Gene No.	44748	Strand	+
Start	27700	End	31851

Name OJ991117\_03.0222.C4.o5.gp Method AAT/GAP  
 Start 30595 End 31851  
 GI 1601.1.R1084 Score 1448  
 Exons 30595..30653, 30760..30855, 31024..31266, 31357..31591,  
 31719..31851  
 GI Descrip. '2493650/sp|Q43831|RUBB\_SECCE 0.0e+00 RUBISCO SUBUNIT  
 BINDING-PROTEIN BETA SUBUNIT (60 KD CHAPERONIN BETA SUBUNIT)  
 (CPN-60 BETA) >gi\_1167858\_emb\_CAA93139\_ (Z68903) chaperonin  
 [Secale cereale]'

Seq. No. 21401 Seq. ID OJ991117\_03.0222.C4  
 Gene No. 44749 Strand -  
 Start 3834 End 14394  
 Name OJ991117\_03.0222.C4.o2.gs Method GENSCAN  
 Start 3834 End 14394  
 GI none Score .6  
 Exons 3834..4270, 4390..4469, 5291..5387, 6098..6158, 6802..7035,  
 7865..7984, 8094..8209, 8532..8640, 9189..9349, 10344..10472,  
 10681..10702, 11102..11268, 12038..12163, 13060..13131,  
 14337..14394

Seq. No. 21401 Seq. ID OJ991117\_03.0222.C4  
 Gene No. 44749 Strand -  
 Start 3834 End 14394  
 Name OJ991117\_03.0222.C4.o1.np Method AAT/NAP  
 Start 3846 End 4910  
 GI 4581122 Score 380  
 Exons 3846..4270, 4390..4469, 4885..4910  
 GI Descrip. (AC005825) putative gluconokinase [Arabidopsis thaliana]

Seq. No. 21401 Seq. ID OJ991117\_03.0222.C4  
 Gene No. 44750 Strand -  
 Start 15938 End 24288  
 Name OJ991117\_03.0222.C4.o2.np Method AAT/NAP  
 Start 15938 End 18812  
 GI 4544450 Score 668  
 Exons 15938..17345, 18783..18812  
 GI Descrip. (AC006592) hypothetical protein [Arabidopsis thaliana]

Seq. No. 21401 Seq. ID OJ991117\_03.0222.C4  
 Gene No. 44750 Strand -  
 Start 15938 End 24288  
 Name OJ991117\_03.0222.C4.o4.gs Method GENSCAN  
 Start 16034 End 24288  
 GI none Score .43  
 Exons 16034..17676, 17853..18008, 18566..19552, 20541..20697,  
 21987..22063, 23442..23665, 23723..23929, 24236..24288

Seq. No. 21401 Seq. ID OJ991117\_03.0222.C4  
 Gene No. 44751 Strand -  
 Start 24741 End 25858  
 Name OJ991117\_03.0222.C4.o3.np Method AAT/NAP  
 Start 24735 End 25724  
 GI 6714424 Score 567  
 Exons 24735..24923, 25011..25136, 25230..25345, 25471..25561,  
 25671..25724  
 GI Descrip. (AC012328) putative ADP-ribosylation factor [Arabidopsis

thaliana]

Seq. No.	21401	Seq. ID	OJ991117_03.0222.C4
Gene No.	44751	Strand	-
Start	24741	End	25858
Name	OJ991117_03.0222.C4.o5.gs	Method	GENSCAN
Start	24741	End	25858
GI	none	Score	.82
Exons	24741..24923, 25011..25136, 25230..25345, 25759..25858		

Seq. No.	21401	Seq. ID	OJ991117_03.0222.C4
Gene No.	44752	Strand	-
Start	26303	End	26414
Name	OJ991117_03.0222.C4.o5.ts	Method	TBLASTX:Soybean
Start	2384	End	2581
GI	none	Score	192
Exons	2384..2581, 2422..2568		

Seq. No.	21401	Seq. ID	OJ991117_03.0222.C4
Gene No.	44752	Strand	-
Start	26303	End	26414
Name	OJ991117_03.0222.C4.o3.tm	Method	TBLASTX:Maize
Start	2396	End	3570
GI	none	Score	41
Exons	2396..2434, 2488..2529, 2489..2530, 2564..2593, 2566..2595, 3127..3363, 3165..3374, 3192..3389, 3193..3390, 3349..3456, 3369..3455, 3400..3456, 3436..3498, 3438..3497, 3439..3498, 3440..3499, 3534..3569, 3553..3570		

Seq. No.	21401	Seq. ID	OJ991117_03.0222.C4
Gene No.	44752	Strand	-
Start	26303	End	26414
Name	OJ991117_03.0222.C4.o7.tm	Method	TBLASTX:Maize
Start	3825	End	4228
GI	none	Score	234
Exons	3825..4088, 3849..4067, 3850..4089, 3985..4101, 4107..4178, 4110..4178, 4157..4228		

Seq. No.	21401	Seq. ID	OJ991117_03.0222.C4
Gene No.	44752	Strand	-
Start	26303	End	26414
Name	OJ991117_03.0222.C4.o5.tw	Method	TBLASTX:Wheat
Start	6331	End	7017
GI	none	Score	165
Exons	6331..6489, 6332..6478, 6800..7015, 6801..7013, 6802..7017		

Seq. No.	21401	Seq. ID	OJ991117_03.0222.C4
Gene No.	44752	Strand	-
Start	26303	End	26414
Name	OJ991117_03.0222.C4.o8.tm	Method	TBLASTX:Maize
Start	6840	End	7326
GI	none	Score	235
Exons	6840..7064, 6841..7068, 6842..7069, 7288..7326		

Seq. No.	21401	Seq. ID	OJ991117_03.0222.C4
Gene No.	44752	Strand	-
Start	26303	End	26414

Name	OJ991117_03.0222.C4.o9.tm	Method	TBLASTX:Maize
Start	7862	End	8139
GI	none	Score	143
Exons	7862..7987, 7864..8025, 7866..7982, 8094..8138, 8095..8139		

Seq. No.	21401	Seq. ID	OJ991117_03.0222.C4
Gene No.	44752	Strand	-
Start	26303	End	26414
Name	OJ991117_03.0222.C4.o1.tw	Method	TBLASTX:Wheat
Start	11806	End	12206
GI	none	Score	92
Exons	11806..11898, 11806..11907, 11807..11905, 12020..12157, 12021..12173, 12021..12206, 12022..12204		

Seq. No.	21401	Seq. ID	OJ991117_03.0222.C4
Gene No.	44752	Strand	-
Start	26303	End	26414
Name	OJ991117_03.0222.C4.o5.tm	Method	TBLASTX:Maize
Start	11807	End	12162
GI	none	Score	108
Exons	11807..11905, 11810..11905, 11824..11907, 12020..12160, 12021..12161, 12049..12162		

Seq. No.	21401	Seq. ID	OJ991117_03.0222.C4
Gene No.	44752	Strand	-
Start	26303	End	26414
Name	OJ991117_03.0222.C4.o3.ts	Method	TBLASTX:Soybean
Start	11810	End	12157
GI	none	Score	117
Exons	11810..11905, 11815..11907, 12020..12145, 12020..12157, 12021..12152		

Seq. No.	21401	Seq. ID	OJ991117_03.0222.C4
Gene No.	44752	Strand	-
Start	26303	End	26414
Name	OJ991117_03.0222.C4.o3.tc	Method	TBLASTX:Cress
Start	11818	End	12169
GI	none	Score	92
Exons	11818..11907, 11819..11905, 12020..12157, 12021..12152, 12047..12169		

Seq. No.	21401	Seq. ID	OJ991117_03.0222.C4
Gene No.	44752	Strand	-
Start	26303	End	26414
Name	OJ991117_03.0222.C4.o4.ts	Method	TBLASTX:Soybean
Start	16295	End	16648
GI	none	Score	94
Exons	16295..16411, 16418..16648, 16419..16643		

Seq. No.	21401	Seq. ID	OJ991117_03.0222.C4
Gene No.	44752	Strand	-
Start	26303	End	26414
Name	OJ991117_03.0222.C4.o4.tm	Method	TBLASTX:Maize
Start	16307	End	16681
GI	none	Score	95
Exons	16307..16411, 16412..16681, 16413..16589, 16415..16678		

Seq. No.	21401	Seq. ID	OJ991117_03.0222.C4
Gene No.	44752	Strand	-
Start	26303	End	26414
Name	OJ991117_03.0222.C4.o2.tw	Method	TBLASTX:Wheat
Start	16391	End	17068
GI	none	Score	190
Exons	16391..16411, 16412..16813, 16431..16814, 16439..16555, 16907..17068, 16911..17003		

Seq. No.	21401	Seq. ID	OJ991117_03.0222.C4
Gene No.	44752	Strand	-
Start	26303	End	26414
Name	OJ991117_03.0222.C4.o2.tc	Method	TBLASTX:Cress
Start	16418	End	17221
GI	none	Score	128
Exons	16418..16522, 16491..16814, 16508..16804, 16520..16813, 16880..16912, 16913..17071, 16919..17059, 17135..17221		

Seq. No.	21401	Seq. ID	OJ991117_03.0222.C4
Gene No.	44752	Strand	-
Start	26303	End	26414
Name	OJ991117_03.0222.C4.o2.ts	Method	TBLASTX:Soybean
Start	24753	End	25730
GI	none	Score	100
Exons	24753..24872, 24754..24873, 24873..24923, 24982..25137, 25011..25136, 25227..25346, 25231..25347, 25456..25557, 25463..25561, 25469..25564, 25470..25586, 25689..25730		

Seq. No.	21401	Seq. ID	OJ991117_03.0222.C4
Gene No.	44752	Strand	-
Start	26303	End	26414
Name	OJ991117_03.0222.C4.o2.tm	Method	TBLASTX:Maize
Start	24759	End	25725
GI	none	Score	94
Exons	24759..24872, 24760..24873, 24873..24923, 24982..25137, 25011..25136, 25090..25140, 25227..25346, 25231..25347, 25243..25347, 25469..25564, 25470..25586, 25470..25565, 25687..25725, 25689..25724		

Seq. No.	21401	Seq. ID	OJ991117_03.0222.C4
Gene No.	44752	Strand	-
Start	26303	End	26414
Name	OJ991117_03.0222.C4.o4.tw	Method	TBLASTX:Wheat
Start	24780	End	25571
GI	none	Score	74
Exons	24780..24869, 25000..25131, 25011..25136, 25227..25346, 25231..25347, 25469..25564, 25470..25571		

Seq. No.	21401	Seq. ID	OJ991117_03.0222.C4
Gene No.	44752	Strand	-
Start	26303	End	26414
Name	OJ991117_03.0222.C4.o4.tc	Method	TBLASTX:Cress
Start	25000	End	25571
GI	none	Score	56
Exons	25000..25131, 25014..25136, 25227..25346, 25243..25347, 25456..25542, 25463..25561, 25469..25564, 25470..25571		



Seq. No.	21401	Seq. ID	OJ991117_03.0222.C4
Gene No.	44752	Strand	-
Start	26303	End	26414
Name	OJ991117_03.0222.C4.o4.gp	Method	AAT/GAP
Start	26303	End	26414
GI	73918_1.R1084	Score	117
Exons	26303..26414		
GI Descrip.	'2280503/dbj AB005781 AB005781 2.0e-26 Arabidopsis thaliana tRNA-Asp gene'		

Seq. No.	21401	Seq. ID	OJ991117_03.0222.C4
Gene No.	44753	Strand	
Start	29629	End	31851
Name	OJ991117_03.0222.C4.o6.tm	Method	TBLASTX:Maize
Start	29629	End	30087
GI	none	Score	97
Exons	29629..29700, 29630..29701, 29768..29893, 29771..29887, 29917..30087, 29922..30071, 29956..30084		

Seq. No.	21401	Seq. ID	OJ991117_03.0222.C4
Gene No.	44753	Strand	
Start	29629	End	31851
Name	OJ991117_03.0222.C4.o1.tc	Method	TBLASTX:Cress
Start	29645	End	31533
GI	none	Score	80
Exons	29645..29719, 29777..29893, 29913..30071, 29917..30087, 29944..30084, 30513..30656, 30539..30655, 30757..30813, 30759..30803, 31021..31266, 31022..31243, 31023..31265, 31024..31269, 31122..31271, 31331..31441, 31354..31533, 31360..31437, 31362..31532		

Seq. No.	21401	Seq. ID	OJ991117_03.0222.C4
Gene No.	44753	Strand	
Start	29629	End	31851
Name	OJ991117_03.0222.C4.o1.ts	Method	TBLASTX:Soybean
Start	29812	End	31851
GI	none	Score	77
Exons	29812..29859, 29813..29863, 29913..30071, 29917..30087, 29944..30084, 30513..30656, 30513..30653, 30539..30655, 30757..30813, 30757..30819, 30758..30820, 30759..30824, 31023..31262, 31024..31269, 31122..31271, 31354..31599, 31354..31434, 31365..31598, 31708..31851, 31712..31846, 31723..31851		

Seq. No.	21401	Seq. ID	OJ991117_03.0222.C4
Gene No.	44753	Strand	
Start	29629	End	31851
Name	OJ991117_03.0222.C4.o1.tm	Method	TBLASTX:Maize
Start	30537	End	31851
GI	none	Score	179
Exons	30537..30656, 30542..30655, 30757..30828, 30758..30832, 30759..30860, 31012..31266, 31022..31264, 31022..31273, 31024..31269, 31122..31274, 31354..31599, 31354..31446, 31355..31447, 31356..31598, 31712..31849, 31713..31799, 31717..31851, 31718..31849		

Seq. No.	21401	Seq. ID	OJ991117_03.0222.C4
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Gene No.	44753	Strand	
Start	29629	End	31851
Name	OJ991117_03.0222.C4.o3.tw	Method	TBLASTX:Wheat
Start	31201	End	31599
GI	none	Score	56
Exons	31201..31257, 31357..31599, 31368..31598		

Seq. No.	21401	Seq. ID	OJ991117_03.0222.C4
Gene No.	44753	Strand	
Start	29629	End	31851
Name	OJ991117_03.0222.C4.o5.tc	Method	TBLASTX:Cress
Start	31536	End	31846
GI	none	Score	73
Exons	31536..31589, 31536..31598, 31537..31599, 31712..31846, 31718..31846		

Seq. No.	21401	Seq. ID	OJ991117_03.0222.C4
Gene No.	44753	Strand	
Start	29629	End	31851
Name	OJ991117_03.0222.C4.o6.tw	Method	TBLASTX:Wheat
Start	31709	End	31851
GI	none	Score	184
Exons	31709..31849, 31712..31849, 31720..31851, 31720..31851		

Seq. No.	21402	Seq. ID	OJ991117_03.0222.C5
Gene No.	44754	Strand	+
Start	159	End	5864
Name	OJ991117_03.0222.C5.o1.gp	Method	AAT/GAP
Start	159	End	1624
GI	1601_1.R1084	Score	1234
Exons	159..263, 437..529, 607..699, 1149..1272, 1374..1624		
GI Descrip.	'2493650/sp Q43831 RUBB_SECCE 0.0e+00 RUBISCO SUBUNIT BINDING-PROTEIN BETA SUBUNIT (60 KD CHAPERONIN BETA SUBUNIT) (CPN-60 BETA) >gi_1167858_emb_CAA93139_ (Z68903) chaperonin [Secale cereale]'		

Seq. No.	21402	Seq. ID	OJ991117_03.0222.C5
Gene No.	44754	Strand	+
Start	159	End	5864
Name	OJ991117_03.0222.C5.o1.np	Method	AAT/NAP
Start	159	End	1283
GI	2493650	Score	570
Exons	159..263, 437..529, 607..699, 1149..1283		
GI Descrip.	RUBISCO SUBUNIT BINDING-PROTEIN BETA SUBUNIT (60 KD CHAPERONIN BETA SUBUNIT) (CPN-60 BETA) gi_1167858_emb_CAA93139_ (Z68903) chaperonin [Secale cereale]		

Seq. No.	21402	Seq. ID	OJ991117_03.0222.C5
Gene No.	44754	Strand	+
Start	159	End	5864
Name	OJ991117_03.0222.C5.o1.gs	Method	GENSCAN
Start	159	End	4762
GI	none	Score	.59
Exons	159..263, 437..529, 607..699, 1149..1272, 1657..1744, 1859..1920, 2322..2419, 3739..3784, 4301..4470, 4670..4762		

Seq. No.	21402	Seq. ID	OJ991117_03.0222.C5
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Gene No.	44754	Strand	+
Start	159	End	5864
Name	OJ991117_03.0222.C5.o2.np	Method	AAT/NAP
Start	4327	End	5864
GI	81600	Score	133
Exons	4327..4432, 4670..4785, 4996..5162, 5719..5864		
GI Descrip.	chaperonin 60 beta (clone bX) - Arabidopsis thaliana (fragment)		

Seq. No.	21402	Seq. ID	OJ991117_03.0222.C5
Gene No.	44755	Strand	+
Start	9510	End	10034
Name	OJ991117_03.0222.C5.o2.gp	Method	AAT/GAP
Start	9510	End	10034
GI	none	Score	1017
Exons	9510..10034		

Seq. No.	21402	Seq. ID	OJ991117_03.0222.C5
Gene No.	44756	Strand	-
Start	6009	End	9831
Name	OJ991117_03.0222.C5.o1.tc	Method	TBLASTX:Cress
Start	195	End	5159
GI	none	Score	93
Exons	195..266, 436..531, 437..538, 603..701, 604..702, 606..740, 1146..1283, 1148..1285, 1148..1282, 4673..4744, 5099..5155, 5100..5159		

Seq. No.	21402	Seq. ID	OJ991117_03.0222.C5
Gene No.	44756	Strand	-
Start	6009	End	9831
Name	OJ991117_03.0222.C5.o1.ts	Method	TBLASTX:Soybean
Start	195	End	5159
GI	none	Score	102
Exons	195..266, 436..537, 437..538, 437..541, 601..699, 603..701, 604..702, 1146..1274, 1148..1300, 1148..1273, 4015..4095, 4669..4770, 4673..4753, 5099..5155, 5100..5159		

Seq. No.	21402	Seq. ID	OJ991117_03.0222.C5
Gene No.	44756	Strand	-
Start	6009	End	9831
Name	OJ991117_03.0222.C5.o1.tm	Method	TBLASTX:Maize
Start	198	End	5159
GI	none	Score	101
Exons	198..266, 436..531, 437..538, 603..704, 604..705, 5099..5155, 5100..5159		

Seq. No.	21402	Seq. ID	OJ991117_03.0222.C5
Gene No.	44756	Strand	-
Start	6009	End	9831
Name	OJ991117_03.0222.C5.o1.tw	Method	TBLASTX:Wheat
Start	439	End	5160
GI	none	Score	139
Exons	439..531, 440..538, 452..538, 599..700, 603..701, 604..702, 1146..1274, 1146..1208, 1148..1297, 1148..1285, 5099..5158, 5100..5159, 5104..5160		

Seq. No.	21402	Seq. ID	OJ991117_03.0222.C5
Gene No.	44756	Strand	-

Start	6009	End	9831
Name	OJ991117_03.0222.C5.o2.tm	Method	TBLASTX:Maize
Start	1146	End	4786
GI	none	Score	203
Exons	1146..1283, 1147..1209, 1148..1291, 1148..1285, 1255..1290, 1372..1392, 3879..3905, 3911..3961, 4015..4089, 4667..4744, 4669..4767, 4673..4759, 4752..4778, 4754..4786		

Seq. No.	21402	Seq. ID	OJ991117_03.0222.C5
Gene No.	44756	Strand	-
Start	6009	End	9831
Name	OJ991117_03.0222.C5.o2.gs	Method	GENSCAN
Start	6009	End	9831
GI	none	Score	.55
Exons	6009..6142, 6272..6383, 6784..6900, 9784..9831		

Seq. No.	21403	Seq. ID	OJ991117_03.0222.C6
Gene No.	44757	Strand	+
Start	219	End	6021
Name	OJ991117_03.0222.C6.o1.gp	Method	AAT/GAP
Start	219	End	956
GI	48856_1.R1084	Score	1465
Exons	219..956		
GI Descrip.	'5815410/gb AAD52659.1 AF177392_1 0.0e+00 (AF177392) blast and wounding induced mitogen-activated protein kinase [Oryza sativa]'		

Seq. No.	21403	Seq. ID	OJ991117_03.0222.C6
Gene No.	44757	Strand	+
Start	219	End	6021
Name	OJ991117_03.0222.C6.o2.tm	Method	TBLASTX:Maize
Start	426	End	3363
GI	none	Score	39
Exons	426..449, 427..450, 570..605, 570..605, 571..606, 741..1037, 746..1036, 2977..3363, 2995..3174, 3003..3362		

Seq. No.	21403	Seq. ID	OJ991117_03.0222.C6
Gene No.	44757	Strand	+
Start	219	End	6021
Name	OJ991117_03.0222.C6.o1.gs	Method	GENSCAN
Start	564	End	6021
GI	none	Score	.77
Exons	564..1021, 3006..3879, 3948..4298, 5908..6021		

Seq. No.	21403	Seq. ID	OJ991117_03.0222.C6
Gene No.	44757	Strand	+
Start	219	End	6021
Name	OJ991117_03.0222.C6.o2.gp	Method	AAT/GAP
Start	3324	End	3616
GI	569537	Score	586
Exons	3324..3616		

Seq. No.	21403	Seq. ID	OJ991117_03.0222.C6
Gene No.	44757	Strand	+
Start	219	End	6021
Name	OJ991117_03.0222.C6.o1.ts	Method	TBLASTX:Soybean
Start	3364	End	3950

GI none Score 63  
Exons 3364..3456, 3468..3521, 3478..3531, 3592..3870, 3627..3857, 3876..3950

Seq. No. 21403 Seq. ID OJ991117\_03.0222.C6  
Gene No. 44757 Strand +  
Start 219 End 6021  
Name OJ991117\_03.0222.C6.o1.tm Method TBLASTX:Maize  
Start 3364 End 4538  
GI none Score 805  
Exons 3364..3873, 3368..3868, 3381..3872, 3871..4047, 3875..4198, 3923..4051, 4129..4215, 4136..4219, 4149..4241, 4149..4241, 4177..4242, 4236..4268, 4263..4313, 4265..4312, 4270..4320, 4280..4417, 4345..4383, 4350..4400, 4383..4427, 4461..4523, 4462..4506, 4463..4507, 4501..4536, 4509..4538

Seq. No. 21403 Seq. ID OJ991117\_03.0222.C6  
Gene No. 44757 Strand +  
Start 219 End 6021  
Name OJ991117\_03.0222.C6.o1.tw Method TBLASTX:Wheat  
Start 3618 End 3873  
GI none Score 175  
Exons 3618..3869, 3620..3865, 3625..3873

Seq. No. 21403 Seq. ID OJ991117\_03.0222.C6  
Gene No. 44757 Strand +  
Start 219 End 6021  
Name OJ991117\_03.0222.C6.o3.gp Method AAT/GAP  
Start 3979 End 4759  
GI none Score 1275  
Exons 3979..4644, 4736..4759

Seq. No. 21404 Seq. ID OJ991117\_03.0222.C7  
Gene No. 44758 Strand -  
Start 297 End 391  
Name OJ991117\_03.0222.C7.o1.gs Method GENSCAN  
Start 297 End 391  
GI none Score .62  
Exons 297..391

Seq. No. 21405 Seq. ID OJ991117\_03.0222.C9  
Gene No. 44759 Strand +  
Start 4450 End 4935  
Name OJ991117\_03.0222.C9.o1.np Method AAT/NAP  
Start 4450 End 4935  
GI 3719211 Score 336  
Exons 4450..4935  
GI Descrip. (U97021) UIP2 [Arabidopsis thaliana]

Seq. No. 21405 Seq. ID OJ991117\_03.0222.C9  
Gene No. 44760 Strand +  
Start 8652 End 9086  
Name OJ991117\_03.0222.C9.o2.np Method AAT/NAP  
Start 8652 End 9086  
GI 2911041 Score 308  
Exons 8652..9086  
GI Descrip. (AL021961) kinetochore (SKPlp) - like protein [Arabidopsis

thaliana]

Seq. No.	21405	Seq. ID	OJ991117_03.0222.C9
Gene No.	44761	Strand	+
Start	24070	End	32658
Name	OJ991117_03.0222.C9.o4.gs	Method	GENSCAN
Start	24070	End	32658
GI	none	Score	.52
Exons	24070..24200, 25193..25313, 25759..26031, 28376..28685, 29164..29289, 29562..29950, 30383..30611, 30881..31012, 31106..31372, 31550..31679, 31755..31899, 32354..32447, 32618..32658		

Seq. No.	21405	Seq. ID	OJ991117_03.0222.C9
Gene No.	44762	Strand	+
Start	34083	End	34739
Name	OJ991117_03.0222.C9.o5.gs	Method	GENSCAN
Start	34083	End	34739
GI	none	Score	.79
Exons	34083..34739		

Seq. No.	21405	Seq. ID	OJ991117_03.0222.C9
Gene No.	44763	Strand	-
Start	19579	End	24177
Name	OJ991117_03.0222.C9.o4.tm	Method	TBLASTX:Maize
Start	4453	End	15240
GI	none	Score	91
Exons	4453..4578, 4483..4578, 4584..4649, 4585..4704, 4663..4932, 4755..4931, 8679..8720, 8729..8809, 8734..8787, 8786..8830, 8820..9065, 8972..9055, 9044..9082, 9045..9089, 15121..15201, 15178..15240		

Seq. No.	21405	Seq. ID	OJ991117_03.0222.C9
Gene No.	44763	Strand	-
Start	19579	End	24177
Name	OJ991117_03.0222.C9.o3.ts	Method	TBLASTX:Soybean
Start	4476	End	9092
GI	none	Score	53
Exons	4476..4523, 4483..4524, 4504..4578, 4582..4659, 4584..4649, 4684..4932, 4791..4931, 8729..8809, 8793..8819, 8853..9065, 8948..9055, 9044..9082, 9045..9092		

Seq. No.	21405	Seq. ID	OJ991117_03.0222.C9
Gene No.	44763	Strand	-
Start	19579	End	24177
Name	OJ991117_03.0222.C9.o1.tc	Method	TBLASTX:Cress
Start	4483	End	9095
GI	none	Score	92
Exons	4483..4578, 4584..4649, 4585..4665, 4651..4932, 4818..4931, 8729..8809, 8811..9065, 8972..9055, 9044..9082, 9045..9095		

Seq. No.	21405	Seq. ID	OJ991117_03.0222.C9
Gene No.	44763	Strand	-
Start	19579	End	24177
Name	OJ991117_03.0222.C9.o2.tw	Method	TBLASTX:Wheat
Start	9759	End	14289
GI	none	Score	71

Exons 9759..9812, 9860..10009, 9900..10019, 9913..10023, 13948..14232, 13948..14289

Seq. No. 21405 Seq. ID OJ991117\_03.0222.C9  
Gene No. 44763 Strand -  
Start 19579 End 24177  
Name OJ991117\_03.0222.C9.o2.tm Method TBLASTX:Maize  
Start 9875 End 14079  
GI none Score 142  
Exons 9875..10072, 9876..10109, 9877..10077, 10080..10367, 10082..10156, 10092..10349, 10093..10365, 10184..10366, 13612..13734, 13626..13718, 13636..13722, 13737..13874, 13747..13887, 13840..13893, 13899..14066, 13927..14079

Seq. No. 21405 Seq. ID OJ991117\_03.0222.C9  
Gene No. 44763 Strand -  
Start 19579 End 24177  
Name OJ991117\_03.0222.C9.o3.np Method AAT/NAP  
Start 18861 End 24177  
GI 5091513 Score 2245  
Exons 18861..19080, 19234..19362, 20028..21924, 22788..23302, 24148..24177

GI Descrip. (AB023482) Hypothetical protein [Oryza sativa]

Seq. No. 21405 Seq. ID OJ991117\_03.0222.C9  
Gene No. 44763 Strand -  
Start 19579 End 24177  
Name OJ991117\_03.0222.C9.o3.gs Method GENSCAN  
Start 19579 End 23278  
GI none Score .48  
Exons 19579..20293, 20492..20739, 20851..21171, 21254..21544, 21869..21943, 22292..22421, 22821..23278

Seq. No. 21405 Seq. ID OJ991117\_03.0222.C9  
Gene No. 44763 Strand -  
Start 19579 End 24177  
Name OJ991117\_03.0222.C9.o6.tm Method TBLASTX:Maize  
Start 21998 End 22758  
GI none Score 110  
Exons 21998..22114, 21999..22115, 22002..22118, 22003..22116, 22118..22222, 22119..22235, 22479..22595, 22480..22596, 22483..22599, 22553..22603, 22595..22690, 22597..22689, 22599..22694, 22599..22694, 22699..22758

Seq. No. 21405 Seq. ID OJ991117\_03.0222.C9  
Gene No. 44763 Strand -  
Start 19579 End 24177  
Name OJ991117\_03.0222.C9.o1.gp Method AAT/GAP  
Start 22023 End 22267  
GI LIB3475-004-P1-K2-A5 Score 399  
Exons 22023..22267  
GI Descrip. '5777612/emb|AJ245900.1|OSA245900 1.0e-94 Oryza sativa chromosome 4 BAC q3037-207F1 complete genome'

Seq. No. 21405 Seq. ID OJ991117\_03.0222.C9  
Gene No. 44763 Strand -  
Start 19579 End 24177

Name	OJ991117_03.0222.C9.o2.gp	Method	AAT/GAP
Start	22504	End	22788
GI	LIB3475-004-P1-K2-A5	Score	371
Exons	22504..22691, 22734..22788		
GI Descrip.	'5777612/emb AJ245900.1 OSA245900 1.0e-94 Oryza sativa chromosome 4 BAC q3037-207F1 complete genome'		

Seq. No.	21405	Seq. ID	OJ991117_03.0222.C9
Gene No.	44764	Strand	
Start	28274	End	28642
Name	OJ991117_03.0222.C9.o5.tm	Method	TBLASTX:Maize
Start	28274	End	28642
GI	none	Score	145
Exons	28274..28408, 28291..28398, 28424..28642, 28424..28546		

Seq. No.	21405	Seq. ID	OJ991117_03.0222.C9
Gene No.	44765	Strand	
Start	30742	End	31634
Name	OJ991117_03.0222.C9.o1.tw	Method	TBLASTX:Wheat
Start	30742	End	31150
GI	none	Score	602
Exons	30742..31149, 30759..31082, 30860..31150		

Seq. No.	21405	Seq. ID	OJ991117_03.0222.C9
Gene No.	44765	Strand	
Start	30742	End	31634
Name	OJ991117_03.0222.C9.o3.tm	Method	TBLASTX:Maize
Start	30802	End	31017
GI	none	Score	306
Exons	30802..31017, 30804..31016		

Seq. No.	21405	Seq. ID	OJ991117_03.0222.C9
Gene No.	44765	Strand	
Start	30742	End	31634
Name	OJ991117_03.0222.C9.o1.tm	Method	TBLASTX:Maize
Start	31018	End	31479
GI	none	Score	613
Exons	31018..31479, 31020..31082, 31137..31478		

Seq. No.	21405	Seq. ID	OJ991117_03.0222.C9
Gene No.	44765	Strand	
Start	30742	End	31634
Name	OJ991117_03.0222.C9.o2.ts	Method	TBLASTX:Soybean
Start	31165	End	31634
GI	none	Score	223
Exons	31165..31446, 31200..31457, 31447..31632, 31488..31634		

Seq. No.	21405	Seq. ID	OJ991117_03.0222.C9
Gene No.	44765	Strand	
Start	30742	End	31634
Name	OJ991117_03.0222.C9.o3.tw	Method	TBLASTX:Wheat
Start	31168	End	31548
GI	none	Score	200
Exons	31168..31470, 31222..31311, 31447..31548		

Seq. No.	21405	Seq. ID	OJ991117_03.0222.C9
Gene No.	44766	Strand	



Start	31785	End	32265
Name	OJ991117_03.0222.C9.o1.ts	Method	TBLASTX:Soybean
Start	31785	End	32202
GI	none	Score	177
Exons	31785..31901, 31786..31923, 31960..32202, 32085..32198		

Seq. No.	21405	Seq. ID	OJ991117_03.0222.C9
Gene No.	44766	Strand	
Start	31785	End	32265
Name	OJ991117_03.0222.C9.o4.tw	Method	TBLASTX:Wheat
Start	31831	End	32265
GI	none	Score	78
Exons	31831..31920, 31981..32265		

Seq. No.	21406	Seq. ID	OJ991117_03.0222.C10
Gene No.	44767	Strand	+
Start	2592	End	2701
Name	OJ991117_03.0222.C10.o1.gp	Method	AAT/GAP
Start	2592	End	2701
GI	uC-osflcyp088b12b1	Score	157
Exons	2592..2701		
GI Descrip.	'5257255/dbj AP000364.1 AP000364 3.0e-36 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	21406	Seq. ID	OJ991117_03.0222.C10
Gene No.	44768	Strand	+
Start	3106	End	5086
Name	OJ991117_03.0222.C10.o2.gs	Method	GENSCAN
Start	3106	End	5086
GI	none	Score	.69
Exons	3106..3201, 3328..3498, 3694..3741, 4625..5086		

Seq. No.	21406	Seq. ID	OJ991117_03.0222.C10
Gene No.	44769	Strand	-
Start	1	End	7568
Name	OJ991117_03.0222.C10.o1.np	Method	AAT/NAP
Start	1	End	7568
GI	5295955	Score	291
Exons	1..298, 613..942, 1019..1137, 1908..2025, 4105..4241, 5343..5567, 7258..7568		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	21406	Seq. ID	OJ991117_03.0222.C10
Gene No.	44769	Strand	-
Start	1	End	7568
Name	OJ991117_03.0222.C10.o1.gs	Method	GENSCAN
Start	81	End	1856
GI	none	Score	.4
Exons	81..1051, 1853..1856		

Seq. No.	21406	Seq. ID	OJ991117_03.0222.C10
Gene No.	44769	Strand	-
Start	1	End	7568
Name	OJ991117_03.0222.C10.o3.gs	Method	GENSCAN
Start	5201	End	5506
GI	none	Score	.44

Exons 5201..5216, 5433..5506

Seq. No.	21406	Seq. ID	OJ991117_03.0222.C10
Gene No.	44769	Strand	-
Start	1	End	7568
Name	OJ991117_03.0222.C10.o4.gs	Method	GENSCAN
Start	5985	End	6975
GI	none	Score	.6
Exons	5985..6139, 6951..6975		

Seq. No.	21407	Seq. ID	OJ991117_03.0222.C11
Gene No.	44770	Strand	+
Start	22	End	1587
Name	OJ991117_03.0222.C11.o1.np	Method	AAT/NAP
Start	22	End	1587
GI	4588012	Score	389
Exons	22..228, 384..481, 566..720, 965..1070, 1234..1347, 1462..1587		
GI Descrip.	(AF085717) putative callose synthase catalytic subunit [Gossypium hirsutum]		

Seq. No.	21407	Seq. ID	OJ991117_03.0222.C11
Gene No.	44770	Strand	+
Start	22	End	1587
Name	OJ991117_03.0222.C11.o1.gs	Method	GENSCAN
Start	156	End	1461
GI	none	Score	.94
Exons	156..228, 384..481, 566..720, 974..1097, 1234..1461		

Seq. No.	21408	Seq. ID	OJ991117_03.0222.C12
Gene No.	44771	Strand	+
Start	1	End	8372
Name	OJ991117_03.0222.C12.o1.np	Method	AAT/NAP
Start	1	End	8372
GI	4588012	Score	1058
Exons	1..39, 583..680, 765..882, 2453..2581, 2912..2988, 3074..3152, 5313..5432, 5534..5636, 5901..6024, 6101..6290, 6380..6432, 6701..6761, 6857..6938, 7075..7124, 7214..7300, 7412..7513, 8260..8372		
GI Descrip.	(AF085717) putative callose synthase catalytic subunit [Gossypium hirsutum]		

Seq. No.	21408	Seq. ID	OJ991117_03.0222.C12
Gene No.	44771	Strand	+
Start	1	End	8372
Name	OJ991117_03.0222.C12.o1.gs	Method	GENSCAN
Start	765	End	3522
GI	none	Score	.67
Exons	765..882, 2453..2600, 3353..3522		

Seq. No.	21408	Seq. ID	OJ991117_03.0222.C12
Gene No.	44771	Strand	+
Start	1	End	8372
Name	OJ991117_03.0222.C12.o1.tm	Method	TBLASTX:Maize
Start	6878	End	8364
GI	none	Score	70
Exons	6878..6940, 6878..6934, 6879..6935, 7073..7123, 7074..7148, 7204..7299, 7213..7299, 7214..7318, 7403..7489, 7410..7478,		

7411..7488, 8268..8354, 8272..8361, 8272..8364

Seq. No.	21409	Seq. ID	OJ991117_03.0222.C13
Gene No.	44772	Strand	+
Start	1	End	2341
Name	OJ991117_03.0222.C13.o1.gp	Method	AAT/GAP
Start	1	End	301
GI	62196_1.R1084	Score	303
Exons	1..55, 168..301		
GI Descrip.	'4588012/gb AAD25952.1 AF085717_1 3.0e-33 (AF085717) putative callose synthase catalytic subunit [Gossypium hirsutum]'		

Seq. No.	21409	Seq. ID	OJ991117_03.0222.C13
Gene No.	44772	Strand	+
Start	1	End	2341
Name	OJ991117_03.0222.C13.o1.np	Method	AAT/NAP
Start	1	End	2341
GI	4588012	Score	818
Exons	1..55, 168..288, 432..529, 616..706, 784..944, 1021..1130, 1554..1685, 1867..1935, 2017..2194, 2323..2341		
GI Descrip.	(AF085717) putative callose synthase catalytic subunit [Gossypium hirsutum]		

Seq. No.	21409	Seq. ID	OJ991117_03.0222.C13
Gene No.	44772	Strand	+
Start	1	End	2341
Name	OJ991117_03.0222.C13.o2.gp	Method	AAT/GAP
Start	1	End	461
GI	62196_1.R1084	Score	356
Exons	1..55, 168..288, 432..461		
GI Descrip.	'4588012/gb AAD25952.1 AF085717_1 3.0e-33 (AF085717) putative callose synthase catalytic subunit [Gossypium hirsutum]'		

Seq. No.	21409	Seq. ID	OJ991117_03.0222.C13
Gene No.	44772	Strand	+
Start	1	End	2341
Name	OJ991117_03.0222.C13.o1.gs	Method	GENSCAN
Start	168	End	2194
GI	none	Score	.77
Exons	168..288, 432..536, 784..944, 1021..1130, 1554..1685, 1867..1935, 2017..2194		

Seq. No.	21409	Seq. ID	OJ991117_03.0222.C13
Gene No.	44772	Strand	+
Start	1	End	2341
Name	OJ991117_03.0222.C13.o1.tm	Method	TBLASTX:Maize
Start	626	End	1084
GI	none	Score	66
Exons	626..697, 649..696, 770..928, 783..941, 783..944, 784..942, 1006..1071, 1019..1084		

Seq. No.	21409	Seq. ID	OJ991117_03.0222.C13
Gene No.	44772	Strand	+
Start	1	End	2341
Name	OJ991117_03.0222.C13.o1.ts	Method	TBLASTX:Soybean
Start	793	End	1919
GI	none	Score	171

Exons 793..942, 807..941, 1019..1132, 1547..1579, 1637..1684,  
1860..1919

Seq. No.	21409	Seq. ID	OJ991117_03.0222.C13
Gene No.	44772	Strand	+
Start	1	End	2341
Name	OJ991117_03.0222.C13.o2.tm	Method	TBLASTX:Maize
Start	2015	End	2222
GI	none	Score	260
Exons	2015..2212, 2016..2195, 2019..2222		

Seq. No.	21410	Seq. ID	OJ991117_03.0222.C14
Gene No.	44773	Strand	+
Start	1	End	1407
Name	OJ991117_03.0222.C14.o1.np	Method	AAT/NAP
Start	1	End	1407
GI	4883602	Score	146
Exons	1..39, 1296..1407		
GI Descrip.	(AC006922) putative glucan synthase [Arabidopsis thaliana]		

Seq. No.	21410	Seq. ID	OJ991117_03.0222.C14
Gene No.	44773	Strand	+
Start	1	End	1407
Name	OJ991117_03.0222.C14.o1.tm	Method	TBLASTX:Maize
Start	1292	End	1406
GI	none	Score	92
Exons	1292..1405, 1294..1401, 1296..1406		

Seq. No.	21410	Seq. ID	OJ991117_03.0222.C14
Gene No.	44773	Strand	+
Start	1	End	1407
Name	OJ991117_03.0222.C14.o1.tc	Method	TBLASTX:Cress
Start	1295	End	1406
GI	none	Score	184
Exons	1295..1405, 1296..1406		

Seq. No.	21410	Seq. ID	OJ991117_03.0222.C14
Gene No.	44773	Strand	+
Start	1	End	1407
Name	OJ991117_03.0222.C14.o1.ts	Method	TBLASTX:Soybean
Start	1295	End	1406
GI	none	Score	188
Exons	1295..1405, 1296..1406		

Seq. No.	21411	Seq. ID	OJ991117_03.0222.C15
Gene No.	44774	Strand	+
Start	677	End	4710
Name	OJ991117_03.0222.C15.o2.ts	Method	TBLASTX:Soybean
Start	674	End	4661
GI	none	Score	72
Exons	674..784, 675..785, 676..792, 677..790, 880..951, 882..944, 882..956, 883..957, 4493..4657, 4494..4661		

Seq. No.	21411	Seq. ID	OJ991117_03.0222.C15
Gene No.	44774	Strand	+
Start	677	End	4710
Name	OJ991117_03.0222.C15.o3.tc	Method	TBLASTX:Cress

Start	674	End	1205
GI	none	Score	184
Exons	674..790, 676..792, 677..790, 907..960, 909..956, 1095..1205, 1097..1189		

Seq. No.	21411	Seq. ID	OJ991117_03.0222.C15
Gene No.	44774	Strand	+
Start	677	End	4710
Name	OJ991117_03.0222.C15.o2.tm	Method	TBLASTX:Maize
Start	676	End	2225
GI	none	Score	157
Exons	676..792, 677..790, 682..792, 882..956, 882..956, 883..978, 1094..1243, 1095..1214, 1634..1696, 1638..1697, 2115..2225, 2117..2224		

Name OJ991117\_03.0222.C15.o1.gp Method AAT/GAP  
 Start 2198 End 3985  
 GI uC-osflcyp007h03b1 Score 805  
 Exons 2198..2294, 3307..3354, 3481..3639, 3754..3866, 3941..3985  
 GI Descrip. '4588012/gb|AAD25952.1|AF085717\_1 4.0e-56 (AF085717) putative  
 callose synthase catalytic subunit [Gossypium hirsutum]'

Seq. No. 21411 Seq. ID OJ991117\_03.0222.C15  
 Gene No. 44774 Strand +  
 Start 677 End 4710  
 Name OJ991117\_03.0222.C15.o1.tm Method TBLASTX:Maize  
 Start 3320 End 4664  
 GI none Score 48  
 Exons 3320..3358, 3329..3355, 3476..3640, 3477..3641, 3481..3648,  
 3487..3648, 3745..3825, 3751..3819, 3753..3839, 3824..3865,  
 3825..3866, 3825..3896, 3938..4030, 3938..4030, 4493..4657,  
 4493..4657, 4494..4661, 4494..4664

Seq. No. 21411 Seq. ID OJ991117\_03.0222.C15  
 Gene No. 44774 Strand +  
 Start 677 End 4710  
 Name OJ991117\_03.0222.C15.o1.tc Method TBLASTX:Cress  
 Start 3508 End 4050  
 GI none Score 183  
 Exons 3508..3648, 3519..3599, 3562..3630, 3745..3825, 3751..3825,  
 3753..3839, 3825..3866, 3938..4030, 3938..4027, 3940..4050

Seq. No. 21411 Seq. ID OJ991117\_03.0222.C15  
 Gene No. 44774 Strand +  
 Start 677 End 4710  
 Name OJ991117\_03.0222.C15.o1.tw Method TBLASTX:Wheat  
 Start 3754 End 4041  
 GI none Score 83  
 Exons 3754..3825, 3765..3824, 3825..3866, 3938..4027, 3940..4041

Seq. No. 21411 Seq. ID OJ991117\_03.0222.C15  
 Gene No. 44774 Strand +  
 Start 677 End 4710  
 Name OJ991117\_03.0222.C15.o2.tc Method TBLASTX:Cress  
 Start 4499 End 4661  
 GI none Score 250  
 Exons 4499..4657, 4500..4661

Seq. No. 21412 Seq. ID OJ991117\_03.0222.C16  
 Gene No. 44775 Strand +  
 Start 1 End 1628  
 Name OJ991117\_03.0222.C16.o1.np Method AAT/NAP  
 Start 1 End 1356  
 GI 4588012 Score 559  
 Exons 1..135, 567..617, 717..899, 1123..1356  
 GI Descrip. (AF085717) putative callose synthase catalytic subunit  
 [Gossypium hirsutum]

Seq. No. 21412 Seq. ID OJ991117\_03.0222.C16  
 Gene No. 44775 Strand +  
 Start 1 End 1628  
 Name OJ991117\_03.0222.C16.o1.tm Method TBLASTX:Maize

Start	12	End	1455
GI	none	Score	189
Exons	12..137, 13..138, 540..617, 566..622, 690..914, 711..785, 716..898, 1032..1130, 1098..1361, 1100..1360, 1123..1371, 1123..1365, 1125..1370, 1372..1410, 1386..1415, 1413..1454, 1423..1455		

Seq. No.	21412	Seq. ID	OJ991117_03.0222.C16
Gene No.	44775	Strand	+
Start	1	End	1628
Name	OJ991117_03.0222.C16.ol.gp	Method	AAT/GAP
Start	813	End	1628
GI	20288_1.R1084	Score	1078
Exons	813..899, 1123..1628		
GI Descrip.	'4588012/gb AAD25952.1 AF085717_1 2.0e-30 (AF085717) putative callose synthase catalytic subunit [Gossypium hirsutum]'		

Seq. No.	21412	Seq. ID	OJ991117_03.0222.C16
Gene No.	44775	Strand	+
Start	1	End	1628
Name	OJ991117_03.0222.C16.ol.tc	Method	TBLASTX:Cress
Start	837	End	1360
GI	none	Score	70
Exons	837..914, 1123..1347, 1125..1340, 1135..1347, 1196..1360		

Seq. No.	21412	Seq. ID	OJ991117_03.0222.C16
Gene No.	44775	Strand	+
Start	1	End	1628
Name	OJ991117_03.0222.C16.ol.tw	Method	TBLASTX:Wheat
Start	837	End	1350
GI	none	Score	63
Exons	837..911, 1123..1350, 1155..1340		

Seq. No.	21412	Seq. ID	OJ991117_03.0222.C16
Gene No.	44775	Strand	+
Start	1	End	1628
Name	OJ991117_03.0222.C16.ol.ts	Method	TBLASTX:Soybean
Start	1106	End	1362
GI	none	Score	333
Exons	1106..1318, 1117..1362, 1122..1343		

Seq. No.	21413	Seq. ID	OJ990807_32.0211.C2
Gene No.	44776	Strand	+
Start	581	End	682
Name	OJ990807_32.0211.C2.ol.gp	Method	AAT/GAP
Start	581	End	682
GI	LIB3477-003-P1-K1-E9	Score	127
Exons	581..682		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	21414	Seq. ID	OJ990807_32.0211.C3
Gene No.	44777	Strand	-
Start	1	End	342
Name	OJ990807_32.0211.C3.ol.gp	Method	AAT/GAP
Start	1	End	284

GI 3461 2.R1084 Score 316  
 Exons 1..27, 132..284  
 GI Descrip. '461899/sp|P34791|CYP4\_ARATH 2.0e-59 PEPTIDYL-PROLYL CIS-TRANS ISOMERASE, CHLOROPLAST PRECURSOR (PPIASE) (ROTAMASE) (CYCLOPHILIN) (CYCLOSPORIN A-BINDING PROTEIN) >gi\_1076368\_pir\_B53422 peptidylprolyl isomerase (EC 5.2.1.8) ROC4 - Arabidopsis thaliana >gi\_405131 (L14845) cyclophilin [Arabidopsis thaliana] >gi\_1322278 (U42724) cyclophilin [Arabidopsis thaliana]'

Seq. No. 21414 Seq. ID OJ990807\_32.0211.C3  
 Gene No. 44777 Strand -  
 Start 1 End 342  
 Name OJ990807\_32.0211.C3.ol.np Method AAT/NAP  
 Start 1 End 342  
 GI 849081 Score 124  
 Exons 1..27, 132..342  
 GI Descrip. (U17900) cyclophilin B precursor [Orpinomyces sp. PC-2]

Seq. No. 21414 Seq. ID OJ990807\_32.0211.C3  
 Gene No. 44777 Strand -  
 Start 1 End 342  
 Name OJ990807\_32.0211.C3.ol.tm Method TBLASTX:Maize  
 Start 2 End 285  
 GI none Score 44  
 Exons 2..31, 3..29, 118..285, 122..283, 130..285

Seq. No. 21414 Seq. ID OJ990807\_32.0211.C3  
 Gene No. 44777 Strand -  
 Start 1 End 342  
 Name OJ990807\_32.0211.C3.ol.ts Method TBLASTX:Soybean  
 Start 2 End 285  
 GI none Score 43  
 Exons 2..31, 3..29, 118..285, 122..283

Seq. No. 21414 Seq. ID OJ990807\_32.0211.C3  
 Gene No. 44777 Strand -  
 Start 1 End 342  
 Name OJ990807\_32.0211.C3.ol.gs Method GENSCAN  
 Start 132 End 282  
 GI none Score .45  
 Exons 132..282

Seq. No. 21415 Seq. ID OJ990807\_32.0211.C4  
 Gene No. 44778 Strand -  
 Start 1 End 754  
 Name OJ990807\_32.0211.C4.ol.gp Method AAT/GAP  
 Start 1 End 754  
 GI 3461 2.R1084 Score 291  
 Exons 1..37, 280..308, 413..565, 730..754  
 GI Descrip. '461899/sp|P34791|CYP4\_ARATH 2.0e-59 PEPTIDYL-PROLYL CIS-TRANS ISOMERASE, CHLOROPLAST PRECURSOR (PPIASE) (ROTAMASE) (CYCLOPHILIN) (CYCLOSPORIN A-BINDING PROTEIN) >gi\_1076368\_pir\_B53422 peptidylprolyl isomerase (EC 5.2.1.8) ROC4 - Arabidopsis thaliana >gi\_405131 (L14845) cyclophilin [Arabidopsis thaliana] >gi\_1322278 (U42724) cyclophilin [Arabidopsis thaliana]'



Seq. No.	21415	Seq. ID	OJ990807_32.0211.C4
Gene No.	44778	Strand	-
Start	1	End	754
Name	OJ990807_32.0211.C4.o1.np	Method	AAT/NAP
Start	1	End	754
GI	461899	Score	121
Exons	1..23, 216..308, 413..571, 633..754		
GI Descrip.	PEPTIDYL-PROLYL CIS-TRANS ISOMERASE, CHLOROPLAST PRECURSOR (PPIASE) (ROTAMASE) (CYCLOPHILIN) (CYCLOSPORIN A-BINDING PROTEIN) gi 1076368 pir  B53422 peptidylprolyl isomerase (EC 5.2.1.8) ROC4 - Arabidopsis thaliana gi 405131 (L14845) cyclophilin [Arabidopsis thaliana] gi 1322278 (U42724) cyclophilin [Arabidopsis thaliana] gi 6899901 emb CAB71910.1  (AL138642) peptidy		

Seq. No.	21415	Seq. ID	OJ990807_32.0211.C4
Gene No.	44778	Strand	-
Start	1	End	754
Name	OJ990807_32.0211.C4.o1.tm	Method	TBLASTX:Maize
Start	220	End	566
GI	none	Score	47
Exons	220..309, 220..312, 399..566, 403..564, 411..566		

Seq. No.	21415	Seq. ID	OJ990807_32.0211.C4
Gene No.	44778	Strand	-
Start	1	End	754
Name	OJ990807_32.0211.C4.o1.ts	Method	TBLASTX:Soybean
Start	220	End	566
GI	none	Score	43
Exons	220..312, 284..310, 399..566, 403..564		

Seq. No.	21415	Seq. ID	OJ990807_32.0211.C4
Gene No.	44778	Strand	-
Start	1	End	754
Name	OJ990807_32.0211.C4.o1.gs	Method	GENSCAN
Start	339	End	563
GI	none	Score	.72
Exons	339..361, 413..563		

Seq. No.	21416	Seq. ID	OJ990807_32.0211.C5
Gene No.	44779	Strand	+
Start	306	End	755
Name	OJ990807_32.0211.C5.o2.gp	Method	AAT/GAP
Start	306	End	755
GI	14636_1.R1084	Score	678
Exons	306..501, 601..755		
GI Descrip.	'4680707/gb AAD27743.1 AF132968_1 1.0e-33 (AF132968) CGI-34 protein [Homo sapiens]'		

Seq. No.	21416	Seq. ID	OJ990807_32.0211.C5
Gene No.	44779	Strand	+
Start	306	End	755
Name	OJ990807_32.0211.C5.o1.gs	Method	GENSCAN
Start	367	End	732
GI	none	Score	.46
Exons	367..732		

Seq. No.	21416	Seq. ID	OJ990807_32.0211.C5
Gene No.	44779	Strand	+
Start	306	End	755
Name	OJ990807_32.0211.C5.o1.np	Method	AAT/NAP
Start	433	End	755
GI	6119520	Score	277
Exons	433..501, 601..755		
GI Descrip.	(AC011560) unknown protein [Arabidopsis thaliana]		
Seq. No.	21416	Seq. ID	OJ990807_32.0211.C5
Gene No.	44780	Strand	-
Start	136	End	238
Name	OJ990807_32.0211.C5.o1.gp	Method	AAT/GAP
Start	136	End	238
GI	LIB3477-003-P1-K1-E9	Score	84
Exons	136..238		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I)>gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		
Seq. No.	21416	Seq. ID	OJ990807_32.0211.C5
Gene No.	44781	Strand	
Start	319	End	755
Name	OJ990807_32.0211.C5.o1.ts	Method	TBLASTX:Soybean
Start	319	End	753
GI	none	Score	37
Exons	319..414, 432..497, 432..497, 433..507, 598..753, 600..743, 601..753		
Seq. No.	21416	Seq. ID	OJ990807_32.0211.C5
Gene No.	44781	Strand	
Start	319	End	755
Name	OJ990807_32.0211.C5.o1.tm	Method	TBLASTX:Maize
Start	432	End	755
GI	none	Score	115
Exons	432..497, 433..507, 583..753, 598..753, 600..755		
Seq. No.	21416	Seq. ID	OJ990807_32.0211.C5
Gene No.	44781	Strand	
Start	319	End	755
Name	OJ990807_32.0211.C5.o1.tc	Method	TBLASTX:Cress
Start	433	End	755
GI	none	Score	102
Exons	433..507, 441..500, 598..753, 600..755		
Seq. No.	21417	Seq. ID	OJ990807_32.0211.C6
Gene No.	44782	Strand	+
Start	915	End	2367
Name	OJ990807_32.0211.C6.o1.gs	Method	GENSCAN
Start	915	End	2367
GI	none	Score	.48
Exons	915..1296, 2237..2367		
Seq. No.	21418	Seq. ID	OJ990807_32.0211.C7
Gene No.	44783	Strand	+
Start	220	End	483

Name OJ990807\_32.0211.C7.o1.gs  
 Start 220  
 GI none  
 Exons 220..429

Method GENSCAN  
 End 429  
 Score 1

Seq. No. 21418  
 Gene No. 44783  
 Start 220  
 Name OJ990807\_32.0211.C7.o1.np  
 Start 220  
 GI 6523097  
 Exons 220..483  
 GI Descrip. (AL133315) putative protein [Arabidopsis thaliana]

Seq. ID OJ990807\_32.0211.C7  
 Strand +  
 End 483  
 Method AAT/NAP  
 End 483  
 Score 218

Seq. No. 21418  
 Gene No. 44784  
 Start 1  
 Name OJ990807\_32.0211.C7.o1.gp  
 Start 1  
 GI 2496\_1.R1084  
 Exons 1..804  
 GI Descrip. '6091733/gb|AAF03445.1|AC010797\_21 3.0e-17 (AC010797) unknown protein [Arabidopsis thaliana]'

Seq. ID OJ990807\_32.0211.C7  
 Strand -  
 End 804  
 Method AAT/GAP  
 End 804  
 Score 1565

Seq. No. 21418  
 Gene No. 44785  
 Start 2714  
 Name OJ990807\_32.0211.C7.o2.gs  
 Start 2714  
 GI none  
 Exons 2714..3256

Seq. ID OJ990807\_32.0211.C7  
 Strand -  
 End 3256  
 Method GENSCAN  
 End 3256  
 Score .91

Seq. No. 21418  
 Gene No. 44785  
 Start 2714  
 Name OJ990807\_32.0211.C7.o2.np  
 Start 2720  
 GI 5281045  
 Exons 2720..3256  
 GI Descrip. (AL080318) hypothetical protein [Arabidopsis thaliana]

Seq. ID OJ990807\_32.0211.C7  
 Strand -  
 End 3256  
 Method AAT/NAP  
 End 3256  
 Score 327

Seq. No. 21418  
 Gene No. 44785  
 Start 2714  
 Name OJ990807\_32.0211.C7.o2.gp  
 Start 2846  
 GI none  
 Exons 2846..3175

Seq. ID OJ990807\_32.0211.C7  
 Strand -  
 End 3256  
 Method AAT/GAP  
 End 3175  
 Score 649

Seq. No. 21418  
 Gene No. 44786  
 Start 3782  
 Name OJ990807\_32.0211.C7.o3.gs  
 Start 3782  
 GI none  
 Exons 3782..3789, 3845..4016, 5088..5258, 5363..5464, 5721..5867, 6276..6401, 6784..6963, 7225..7364, 7516..7647, 7730..7903,

Seq. ID OJ990807\_32.0211.C7  
 Strand -  
 End 12341  
 Method GENSCAN  
 End 12261  
 Score .82

8138..8181, 8186..8234, 9104..9305, 9403..9492, 9578..9634,  
9751..9831, 9949..9981, 10092..10166, 10463..10528,  
10767..10837, 11368..11521, 11629..11705, 12225..12261

Seq. No.	21418	Seq. ID	OJ990807_32.0211.C7
Gene No.	44786	Strand	-
Start	3782	End	12341
Name	OJ990807_32.0211.C7.o3.np	Method	AAT/NAP
Start	4686	End	8080
GI	6175185	Score	1092
Exons	4686..4743, 4912..4991, 5088..5258, 5363..5464, 5661..5867, 6276..6401, 6784..6870, 7225..7364, 7516..7647, 7730..7903, 7987..8080		
GI Descrip.	(AC011437) ankyrin-like protein [Arabidopsis thaliana]		

Seq. No.	21418	Seq. ID	OJ990807_32.0211.C7
Gene No.	44786	Strand	-
Start	3782	End	12341
Name	OJ990807_32.0211.C7.o4.gp	Method	AAT/GAP
Start	5207	End	5867
GI	none	Score	632
Exons	5207..5258, 5363..5464, 5580..5642, 5721..5867		

Seq. No.	21418	Seq. ID	OJ990807_32.0211.C7
Gene No.	44786	Strand	-
Start	3782	End	12341
Name	OJ990807_32.0211.C7.o5.gp	Method	AAT/GAP
Start	7299	End	8306
GI	none	Score	1039
Exons	7299..7364, 7516..7647, 7730..7903, 7987..8049, 8138..8306		

Seq. No.	21418	Seq. ID	OJ990807_32.0211.C7
Gene No.	44786	Strand	-
Start	3782	End	12341
Name	OJ990807_32.0211.C7.o6.gp	Method	AAT/GAP
Start	10541	End	12341
GI	4879565	Score	679
Exons	10541..10564, 10767..10837, 11368..11521, 11629..11705, 12225..12341		

Seq. No.	21418	Seq. ID	OJ990807_32.0211.C7
Gene No.	44787	Strand	-
Start	14550	End	14772
Name	OJ990807_32.0211.C7.o4.gs	Method	GENSCAN
Start	14550	End	14772
GI	none	Score	.88
Exons	14550..14772		

Seq. No.	21418	Seq. ID	OJ990807_32.0211.C7
Gene No.	44787	Strand	-
Start	14550	End	14772
Name	OJ990807_32.0211.C7.o5.np	Method	AAT/NAP
Start	14553	End	14753
GI	2281092	Score	193
Exons	14553..14753		
GI Descrip.	(AC002333) hypothetical protein [Arabidopsis thaliana]		

Seq. No. 21418  
 Gene No. 44788  
 Start 14941  
 Name OJ990807\_32.0211.C7.o3.tc  
 Start 205  
 GI none  
 Exons 205..405, 219..404

Seq. ID OJ990807\_32.0211.C7  
 Strand -  
 End 15021  
 Method TBLASTX:Cress  
 End 405  
 Score 205

Seq. No. 21418  
 Gene No. 44788  
 Start 14941  
 Name OJ990807\_32.0211.C7.o4.tm  
 Start 205  
 GI none  
 Exons 205..390, 219..404

Seq. ID OJ990807\_32.0211.C7  
 Strand -  
 End 15021  
 Method TBLASTX:Maize  
 End 404  
 Score 262

Seq. No. 21418  
 Gene No. 44788  
 Start 14941  
 Name OJ990807\_32.0211.C7.o1.ts  
 Start 219  
 GI none  
 Exons 219..437, 220..423

Seq. ID OJ990807\_32.0211.C7  
 Strand -  
 End 15021  
 Method TBLASTX:Soybean  
 End 437  
 Score 269

Seq. No. 21418  
 Gene No. 44788  
 Start 14941  
 Name OJ990807\_32.0211.C7.o1.tw  
 Start 219  
 GI none  
 Exons 219..416, 220..417

Seq. ID OJ990807\_32.0211.C7  
 Strand -  
 End 15021  
 Method TBLASTX:Wheat  
 End 417  
 Score 242

Seq. No. 21418  
 Gene No. 44788  
 Start 14941  
 Name OJ990807\_32.0211.C7.o1.tm  
 Start 2665  
 GI none  
 Exons 2665..2718, 2715..3008, 2716..3003, 2747..3007, 2950..3087, 3065..3145, 3073..3261, 3167..3268, 3194..3265

Seq. ID OJ990807\_32.0211.C7  
 Strand -  
 End 15021  
 Method TBLASTX:Maize  
 End 3268  
 Score 48

Seq. No. 21418  
 Gene No. 44788  
 Start 14941  
 Name OJ990807\_32.0211.C7.o2.tm  
 Start 4670  
 GI none  
 Exons 4670..4726, 4711..4764, 4908..4994, 4912..4995, 4914..4991, 5109..5261, 5111..5260, 5112..5282, 5358..5435, 5363..5437

Seq. ID OJ990807\_32.0211.C7  
 Strand -  
 End 15021  
 Method TBLASTX:Maize  
 End 5437  
 Score 36

Seq. No. 21418  
 Gene No. 44788  
 Start 14941  
 Name OJ990807\_32.0211.C7.o3.ts  
 Start 4695  
 GI none  
 Exons 4695..4745, 4911..4994, 4912..4995, 5088..5129, 5089..5130,

Seq. ID OJ990807\_32.0211.C7  
 Strand -  
 End 15021  
 Method TBLASTX:Soybean  
 End 5189  
 Score 50

5124..5189

Seq. No.	21418	Seq. ID	OJ990807_32.0211.C7
Gene No.	44788	Strand	-
Start	14941	End	15021
Name	OJ990807_32.0211.C7.o2.tc	Method	TBLASTX:Cress
Start	4911	End	5244
GI	none	Score	61
Exons	4911..4973, 5088..5243, 5089..5244		

Seq. No.	21418	Seq. ID	OJ990807_32.0211.C7
Gene No.	44788	Strand	-
Start	14941	End	15021
Name	OJ990807_32.0211.C7.o7.tm	Method	TBLASTX:Maize
Start	5706	End	6856
GI	none	Score	146
Exons	5706..5858, 5740..5859, 5742..5867, 5746..5880, 6274..6402, 6276..6416, 6276..6425, 6293..6442, 6489..6512, 6788..6856, 6796..6846		

Seq. No.	21418	Seq. ID	OJ990807_32.0211.C7
Gene No.	44788	Strand	-
Start	14941	End	15021
Name	OJ990807_32.0211.C7.o1.tc	Method	TBLASTX:Cress
Start	6258	End	7835
GI	none	Score	121
Exons	6258..6371, 7520..7648, 7722..7835		

Seq. No.	21418	Seq. ID	OJ990807_32.0211.C7
Gene No.	44788	Strand	-
Start	14941	End	15021
Name	OJ990807_32.0211.C7.o5.tm	Method	TBLASTX:Maize
Start	7529	End	8166
GI	none	Score	62
Exons	7529..7567, 7568..7648, 7722..7835, 7750..7830, 7812..7913, 7978..8052, 7985..8053, 7988..8050, 8138..8164, 8140..8166		

Seq. No.	21418	Seq. ID	OJ990807_32.0211.C7
Gene No.	44788	Strand	-
Start	14941	End	15021
Name	OJ990807_32.0211.C7.o6.tm	Method	TBLASTX:Maize
Start	10269	End	12276
GI	none	Score	64
Exons	10269..10349, 10270..10359, 10270..10359, 10457..10579, 10461..10565, 10461..10607, 10475..10576, 11411..11521, 11418..11522, 11623..11721, 11630..11707, 12206..12268, 12223..12276, 12223..12267, 12225..12275		

Seq. No.	21418	Seq. ID	OJ990807_32.0211.C7
Gene No.	44788	Strand	-
Start	14941	End	15021
Name	OJ990807_32.0211.C7.o3.tm	Method	TBLASTX:Maize
Start	14550	End	14761
GI	none	Score	239
Exons	14550..14600, 14556..14744, 14557..14745, 14564..14761, 14644..14760		

Seq. No. 21418  
 Gene No. 44788  
 Start 14941  
 Name OJ990807\_32.0211.C7.o2.ts  
 Start 14565  
 GI none  
 Exons 14565..14744, 14575..14739

Seq. ID OJ990807\_32.0211.C7  
 Strand -  
 End 15021  
 Method TBLASTX:Soybean  
 End 14744  
 Score 176

Seq. No. 21418  
 Gene No. 44788  
 Start 14941  
 Name OJ990807\_32.0211.C7.o7.gp  
 Start 14941  
 GI 38012\_1.R1084  
 Exons 14941..15021

Seq. ID OJ990807\_32.0211.C7  
 Strand -  
 End 15021  
 Method AAT/GAP  
 End 15021  
 Score 103

GI Descrip. '4097947/gb|U72255|OSU72255 2.0e-23 Oryza sativa  
 beta-1,3-glucanase precursor (Gns9) gene, complete cds'

Seq. No. 21419  
 Gene No. 44789  
 Start 106  
 Name OJ990807\_32.0211.C8.o1.gs  
 Start 106  
 GI none  
 Exons 106..178

Seq. ID OJ990807\_32.0211.C8  
 Strand -  
 End 178  
 Method GENSCAN  
 End 178  
 Score .61

Seq. No. 21420  
 Gene No. 44790  
 Start 1  
 Name OJ990807\_32.0211.C9.o1.np  
 Start 1  
 GI 2443329  
 Exons 1..55, 134..250, 897..2015, 2120..2204, 2289..2357, 2591..2756  
 GI Descrip. (D86122) Mei2-like protein [Arabidopsis thaliana]

Seq. ID OJ990807\_32.0211.C9  
 Strand +  
 End 2756  
 Method AAT/NAP  
 End 2756  
 Score 571

Seq. No. 21420  
 Gene No. 44790  
 Start 1  
 Name OJ990807\_32.0211.C9.o1.tc  
 Start 2  
 GI none  
 Exons 2..58, 167..253, 1798..1956, 1882..2016, 1983..2018, 2091..2204, 2106..2204, 2286..2363, 2288..2350, 2588..2755, 2593..2754

Seq. ID OJ990807\_32.0211.C9  
 Strand +  
 End 2756  
 Method TBLASTX:Cress  
 End 2755  
 Score 51

Seq. No. 21420  
 Gene No. 44790  
 Start 1  
 Name OJ990807\_32.0211.C9.o1.gs  
 Start 134  
 GI none  
 Exons 134..224, 853..1139, 1421..1564, 1810..2015, 2120..2305

Seq. ID OJ990807\_32.0211.C9  
 Strand +  
 End 2756  
 Method GENSCAN  
 End 2305  
 Score .51

Seq. No. 21420  
 Gene No. 44790  
 Start 1  
 Name OJ990807\_32.0211.C9.o2.tm  
 Start 845

Seq. ID OJ990807\_32.0211.C9  
 Strand +  
 End 2756  
 Method TBLASTX:Maize  
 End 1165

GI none Score 284  
Exons 845..1165, 852..1160, 944..1162

Seq. No. 21420 Seq. ID OJ990807\_32.0211.C9  
Gene No. 44790 Strand +  
Start 1 End 2756  
Name OJ990807\_32.0211.C9.ol.tw Method TBLASTX:Wheat  
Start 1618 End 2154  
GI none Score 519  
Exons 1618..2016, 1620..2018, 1621..2019, 2091..2153, 2106..2153,  
2116..2154, 2116..2154

Seq. No. 21420 Seq. ID OJ990807\_32.0211.C9  
Gene No. 44790 Strand +  
Start 1 End 2756  
Name OJ990807\_32.0211.C9.ol.gp Method AAT/GAP  
Start 1635 End 2163  
GI LIB3433-036-P1-K1-H4 Score 760  
Exons 1635..2015, 2120..2163  
GI Descrip. '2443329/dbj|BAA22374| 3.0e-17 (D86122) Mei2-like protein  
[Arabidopsis thaliana]'

Seq. No. 21420 Seq. ID OJ990807\_32.0211.C9  
Gene No. 44790 Strand +  
Start 1 End 2756  
Name OJ990807\_32.0211.C9.ol.tm Method TBLASTX:Maize  
Start 1642 End 2755  
GI none Score 97  
Exons 1642..1767, 1807..1848, 1861..2016, 1878..2018, 1879..2019,  
2091..2204, 2114..2203, 2134..2205, 2282..2353, 2286..2363,  
2288..2353, 2587..2754, 2588..2755, 2588..2752, 2589..2753,  
2590..2754

Seq. No. 21420 Seq. ID OJ990807\_32.0211.C9  
Gene No. 44790 Strand +  
Start 1 End 2756  
Name OJ990807\_32.0211.C9.ol.ts Method TBLASTX:Soybean  
Start 1858 End 2755  
GI none Score 39  
Exons 1858..1893, 1960..2016, 1980..2018, 2091..2204, 2117..2203,  
2134..2208, 2282..2332, 2286..2363, 2288..2350, 2588..2755,  
2599..2754

Seq. No. 21420 Seq. ID OJ990807\_32.0211.C9  
Gene No. 44790 Strand +  
Start 1 End 2756  
Name OJ990807\_32.0211.C9.o2.gp Method AAT/GAP  
Start 2573 End 2756  
GI uC-osflcyp015e12b1 Score 314  
Exons 2573..2756  
GI Descrip. '2443329/dbj|BAA22374| 9.0e-37 (D86122) Mei2-like protein  
[Arabidopsis thaliana]'

Seq. No. 21421 Seq. ID OJ990807\_32.0211.C10  
Gene No. 44791 Strand +  
Start 269 End 584  
Name OJ990807\_32.0211.C10.ol.gp Method AAT/GAP



Start 269  
 GI 4879565  
 Exons 269..343, 487..584

End 584  
 Score 280

Seq. No. 21421  
 Gene No. 44791  
 Start 269  
 Name OJ990807\_32.0211.C10.o1.gs  
 Start 269  
 GI none  
 Exons 269..324, 489..566

Seq. ID OJ990807\_32.0211.C10  
 Strand +  
 End 584  
 Method GENSCAN  
 End 566  
 Score .92

Seq. No. 21422  
 Gene No. 44792  
 Start 327  
 Name OJ990807\_32.0211.C12.o1.gs  
 Start 327  
 GI none  
 Exons 327..650, 810..820, 906..1242, 1338..1496

Seq. ID OJ990807\_32.0211.C12  
 Strand +  
 End 1511  
 Method GENSCAN  
 End 1496  
 Score .79

Seq. No. 21422  
 Gene No. 44792  
 Start 327  
 Name OJ990807\_32.0211.C12.o1.np  
 Start 906  
 GI 2443329  
 Exons 906..1242, 1338..1496

Seq. ID OJ990807\_32.0211.C12  
 Strand +  
 End 1511  
 Method AAT/NAP  
 End 1496  
 Score 222

GI Descrip. (D86122) Mei2-like protein [Arabidopsis thaliana]

Seq. No. 21422  
 Gene No. 44792  
 Start 327  
 Name OJ990807\_32.0211.C12.o1.tc  
 Start 906  
 GI none  
 Exons 906..1001, 907..948, 1024..1092, 1035..1085, 1171..1242, 1329..1496, 1329..1496, 1331..1474

Seq. ID OJ990807\_32.0211.C12  
 Strand +  
 End 1511  
 Method TBLASTX:Cress  
 End 1496  
 Score 50

Seq. No. 21422  
 Gene No. 44792  
 Start 327  
 Name OJ990807\_32.0211.C12.o1.gp  
 Start 977  
 GI uC-osflcyp002d10b1  
 Exons 977..1242, 1338..1511

Seq. ID OJ990807\_32.0211.C12  
 Strand +  
 End 1511  
 Method AAT/GAP  
 End 1511  
 Score 764

GI Descrip. '4544473/gb|AAD22380.1|AC006580\_12 6.0e-25 (AC006580) putative mei2 protein [Arabidopsis thaliana]'

Seq. No. 21422  
 Gene No. 44792  
 Start 327  
 Name OJ990807\_32.0211.C12.o1.tm  
 Start 1141  
 GI none  
 Exons 1141..1242, 1167..1238, 1168..1242, 1318..1464, 1319..1456, 1329..1496, 1332..1484, 1337..1498

Seq. ID OJ990807\_32.0211.C12  
 Strand +  
 End 1511  
 Method TBLASTX:Maize  
 End 1498  
 Score 93

Seq. No.	21422	Seq. ID	OJ990807_32.0211.C12
Gene No.	44792	Strand	+
Start	327	End	1511
Name	OJ990807_32.0211.C12.o1.ts	Method	TBLASTX:Soybean
Start	1165	End	1497
GI	none	Score	83
Exons	1165..1242, 1167..1235, 1329..1496, 1329..1439, 1331..1492, 1363..1497		

Seq. No.	21423	Seq. ID	OJ990807_32.0211.C14
Gene No.	44793	Strand	-
Start	393	End	614
Name	OJ990807_32.0211.C14.o1.gs	Method	GENSCAN
Start	393	End	614
GI	none	Score	.94
Exons	393..614		

Seq. No.	21424	Seq. ID	OJ990807_32.0211.C15
Gene No.	44794	Strand	+
Start	3920	End	6253
Name	OJ990807_32.0211.C15.o3.gs	Method	GENSCAN
Start	3920	End	6253
GI	none	Score	.43
Exons	3920..4572, 4618..4809, 5176..5474, 5505..6253		

Seq. No.	21424	Seq. ID	OJ990807_32.0211.C15
Gene No.	44795	Strand	+
Start	7777	End	8535
Name	OJ990807_32.0211.C15.o2.np	Method	AAT/NAP
Start	7765	End	8458
GI	3080450	Score	522
Exons	7765..8458		
GI Descrip.	(AL022605) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	21424	Seq. ID	OJ990807_32.0211.C15
Gene No.	44795	Strand	+
Start	7777	End	8535
Name	OJ990807_32.0211.C15.o4.gs	Method	GENSCAN
Start	7777	End	8535
GI	none	Score	.65
Exons	7777..8535		

Seq. No.	21424	Seq. ID	OJ990807_32.0211.C15
Gene No.	44796	Strand	+
Start	14613	End	19014
Name	OJ990807_32.0211.C15.o6.gs	Method	GENSCAN
Start	14613	End	19014
GI	none	Score	.68
Exons	14613..15050, 16137..16669, 16770..16895, 17265..17364, 17489..17553, 17657..17759, 17870..18008, 18116..18330, 18412..18682, 18733..19014		

Seq. No.	21424	Seq. ID	OJ990807_32.0211.C15
Gene No.	44796	Strand	+
Start	14613	End	19014
Name	OJ990807_32.0211.C15.o3.np	Method	AAT/NAP
Start	14636	End	18414

GI 3377817 Score 928  
 Exons 14636..14745, 14822..15054, 16141..16673, 16798..16895,  
 17265..17352, 17489..17553, 17657..17759, 17870..17918,  
 18320..18414  
 GI Descrip. (AF076275) contains similarity to C3HC4-type zinc fingers (Pfam:  
 zf-C3HC4.hmm, score: 29.48) [Arabidopsis thaliana]

Seq. No. 21424 Seq. ID OJ990807\_32.0211.C15  
 Gene No. 44796 Strand +  
 Start 14613 End 19014  
 Name OJ990807\_32.0211.C15.o4.gp Method AAT/GAP  
 Start 16823 End 18173  
 GI uC-osflcyp025h12b1 Score 968  
 Exons 16823..16895, 17265..17364, 17489..17553, 17657..17759,  
 17870..18008, 18116..18173  
 GI Descrip. '3377817 6.0e-50 (AF076275) contains similarity to C3HC4-type  
 zinc fingers (Pfam: zf-C3HC4.hmm, score: 29.48) [Arabidopsis  
 thaliana]'

Seq. No. 21424 Seq. ID OJ990807\_32.0211.C15  
 Gene No. 44796 Strand +  
 Start 14613 End 19014  
 Name OJ990807\_32.0211.C15.o4.np Method AAT/NAP  
 Start 18092 End 18198  
 GI 4827065 Score 78  
 Exons 18092..18198  
 GI Descrip. zinc finger protein 147 (estrogen-responsive finger protein)  
 gi|542812|pir||A49656 estrogen-responsive finger protein, efp  
 (RING finger, coiled-coil domains) - human  
 gi|458726|dbj|BAA04747| (D21205) estrogen responsive finger  
 protein (efp) [Homo sapiens]

Seq. No. 21424 Seq. ID OJ990807\_32.0211.C15  
 Gene No. 44796 Strand +  
 Start 14613 End 19014  
 Name OJ990807\_32.0211.C15.o5.gp Method AAT/GAP  
 Start 18388 End 18747  
 GI none Score 643  
 Exons 18388..18747

Seq. No. 21424 Seq. ID OJ990807\_32.0211.C15  
 Gene No. 44796 Strand +  
 Start 14613 End 19014  
 Name OJ990807\_32.0211.C15.o6.gp Method AAT/GAP  
 Start 18713 End 18957  
 GI 2797468 Score 374  
 Exons 18713..18957

Seq. No. 21424 Seq. ID OJ990807\_32.0211.C15  
 Gene No. 44797 Strand -  
 Start 826 End 1911  
 Name OJ990807\_32.0211.C15.o1.gp Method AAT/GAP  
 Start 737 End 1119  
 GI none Score 718  
 Exons 737..1119

Seq. No. 21424 Seq. ID OJ990807\_32.0211.C15

Gene No.	44797	Strand	-
Start	826	End	1911
Name	OJ990807_32.0211.C15.o1.gs	Method	GENSCAN
Start	826	End	1911
GI	none	Score	.53
Exons	826..1911		
Seq. No.	21424	Seq. ID	OJ990807_32.0211.C15
Gene No.	44798	Strand	-
Start	2735	End	3092
Name	OJ990807_32.0211.C15.o2.gs	Method	GENSCAN
Start	2735	End	3092
GI	none	Score	.58
Exons	2735..2803, 3021..3092		
Seq. No.	21424	Seq. ID	OJ990807_32.0211.C15
Gene No.	44799	Strand	-
Start	9140	End	9609
Name	OJ990807_32.0211.C15.o2.gp	Method	AAT/GAP
Start	9140	End	9609
GI	3760135	Score	839
Exons	9140..9609		
Seq. No.	21424	Seq. ID	OJ990807_32.0211.C15
Gene No.	44800	Strand	-
Start	9514	End	11576
Name	OJ990807_32.0211.C15.o5.gs	Method	GENSCAN
Start	9514	End	11576
GI	none	Score	.95
Exons	9514..9650, 9681..9783, 9902..9962, 10473..10577, 11140..11202, 11566..11576		
Seq. No.	21424	Seq. ID	OJ990807_32.0211.C15
Gene No.	44800	Strand	-
Start	9514	End	11576
Name	OJ990807_32.0211.C15.o3.gp	Method	AAT/GAP
Start	10489	End	11193
GI	2311977	Score	552
Exons	10489..10577, 10997..11193		
Seq. No.	21424	Seq. ID	OJ990807_32.0211.C15
Gene No.	44801	Strand	-
Start	19043	End	19396
Name	OJ990807_32.0211.C15.o4.tm	Method	TBLASTX:Maize
Start	4229	End	4795
GI	none	Score	195
Exons	4229..4411, 4432..4728, 4445..4732, 4450..4731, 4736..4795, 4742..4792		
Seq. No.	21424	Seq. ID	OJ990807_32.0211.C15
Gene No.	44801	Strand	-
Start	19043	End	19396
Name	OJ990807_32.0211.C15.o3.ts	Method	TBLASTX:Soybean
Start	4499	End	5161
GI	none	Score	164
Exons	4499..4729, 4727..4816, 4964..5161		

Seq. No.	21424	Seq. ID	OJ990807_32.0211.C15
Gene No.	44801	Strand	-
Start	19043	End	19396
Name	OJ990807_32.0211.C15.o1.tm	Method	TBLASTX:Maize
Start	4949	End	6184
GI	none	Score	65
Exons	4949..5062, 5120..5812, 5131..5547, 5873..6109, 5965..6078, 6110..6184, 6139..6183		

Seq. No.	21424	Seq. ID	OJ990807_32.0211.C15
Gene No.	44801	Strand	-
Start	19043	End	19396
Name	OJ990807_32.0211.C15.o1.tw	Method	TBLASTX:Wheat
Start	5120	End	5457
GI	none	Score	47
Exons	5120..5164, 5141..5455, 5146..5457, 5147..5449, 5341..5457		

Seq. No.	21424	Seq. ID	OJ990807_32.0211.C15
Gene No.	44801	Strand	-
Start	19043	End	19396
Name	OJ990807_32.0211.C15.o2.ts	Method	TBLASTX:Soybean
Start	5609	End	6196
GI	none	Score	105
Exons	5609..5812, 5873..6196, 5918..6103, 5959..6183		

Seq. No.	21424	Seq. ID	OJ990807_32.0211.C15
Gene No.	44801	Strand	-
Start	19043	End	19396
Name	OJ990807_32.0211.C15.o1.ts	Method	TBLASTX:Soybean
Start	7782	End	8318
GI	none	Score	139
Exons	7782..7925, 7783..7947, 7929..8318, 7933..8298		

Seq. No.	21424	Seq. ID	OJ990807_32.0211.C15
Gene No.	44801	Strand	-
Start	19043	End	19396
Name	OJ990807_32.0211.C15.o1.tc	Method	TBLASTX:Cress
Start	7789	End	8121
GI	none	Score	43
Exons	7789..7818, 7846..7947, 7932..8120, 7933..8121		

Seq. No.	21424	Seq. ID	OJ990807_32.0211.C15
Gene No.	44801	Strand	-
Start	19043	End	19396
Name	OJ990807_32.0211.C15.o3.tm	Method	TBLASTX:Maize
Start	8122	End	15050
GI	none	Score	356
Exons	8122..8322, 14318..14467, 14460..14492, 14586..14795, 14591..14794, 14835..14930, 14852..14887, 14985..15050, 14996..15049		

Seq. No.	21424	Seq. ID	OJ990807_32.0211.C15
Gene No.	44801	Strand	-
Start	19043	End	19396
Name	OJ990807_32.0211.C15.o5.tm	Method	TBLASTX:Maize
Start	9510	End	10492
GI	none	Score	325

Exons 9510..9593, 9536..9784, 9538..9798, 9539..9784, 9651..9803,  
9902..9964, 9923..9958, 10445..10492

Seq. No. 21424 Seq. ID OJ990807\_32.0211.C15  
Gene No. 44801 Strand -  
Start 19043 End 19396  
Name OJ990807\_32.0211.C15.o2.tc Method TBLASTX:Cress  
Start 14595 End 14930  
GI none Score 85  
Exons 14595..14687, 14624..14686, 14667..14789, 14669..14791,  
14838..14930

Seq. No. 21424 Seq. ID OJ990807\_32.0211.C15  
Gene No. 44801 Strand -  
Start 19043 End 19396  
Name OJ990807\_32.0211.C15.o2.tw Method TBLASTX:Wheat  
Start 16085 End 18198  
GI none Score 42  
Exons 16085..16129, 16136..16285, 16137..16286, 18151..18198

Seq. No. 21424 Seq. ID OJ990807\_32.0211.C15  
Gene No. 44801 Strand -  
Start 19043 End 19396  
Name OJ990807\_32.0211.C15.o3.tc Method TBLASTX:Cress  
Start 17253 End 18308  
GI none Score 172  
Exons 17253..17345, 17263..17403, 17489..17551, 17655..17759,  
17711..17761, 17881..17940, 17885..18049, 18114..18200,  
18115..18276, 18132..18308

Seq. No. 21424 Seq. ID OJ990807\_32.0211.C15  
Gene No. 44801 Strand -  
Start 19043 End 19396  
Name OJ990807\_32.0211.C15.o2.tm Method TBLASTX:Maize  
Start 17869 End 18483  
GI none Score 176  
Exons 17869..18024, 17870..18019, 17872..18024, 18099..18383,  
18110..18226, 18114..18326, 18115..18339, 18409..18471,  
18409..18483, 18411..18473

Seq. No. 21424 Seq. ID OJ990807\_32.0211.C15  
Gene No. 44801 Strand -  
Start 19043 End 19396  
Name OJ990807\_32.0211.C15.o7.gp Method AAT/GAP  
Start 19043 End 19396  
GI none Score 678  
Exons 19043..19396

Seq. No. 21425 Seq. ID OJ990807\_32.0211.C16  
Gene No. 44802 Strand +  
Start 64 End 242  
Name OJ990807\_32.0211.C16.o1.gs Method GENSCAN  
Start 64 End 242  
GI none Score .84  
Exons 64..242

Seq. No. 21426 Seq. ID OJ990807\_32.0211.C18

Gene No.	44803	Strand	-
Start	212	End	422
Name	OJ990807_32.0211.C18.o1.gp	Method	AAT/GAP
Start	127	End	187
GI	LIB3477-003-P1-K1-E9	Score	77
Exons	127..187		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	21426	Seq. ID	OJ990807_32.0211.C18
Gene No.	44803	Strand	-
Start	212	End	422
Name	OJ990807_32.0211.C18.o1.gs	Method	GENSCAN
Start	212	End	422
GI	none	Score	.65
Exons	212..422		

Seq. No.	21427	Seq. ID	OJ990807_32.0211.C20
Gene No.	44804	Strand	+
Start	127	End	188
Name	OJ990807_32.0211.C20.o1.gs	Method	GENSCAN
Start	127	End	188
GI	none	Score	.73
Exons	127..188		

Seq. No.	21427	Seq. ID	OJ990807_32.0211.C20
Gene No.	44805	Strand	+
Start	4595	End	6705
Name	OJ990807_32.0211.C20.o2.gp	Method	AAT/GAP
Start	4570	End	6705
GI	none	Score	1137
Exons	4570..4773, 5588..5686, 5773..5881, 6230..6305, 6562..6705		

Seq. No.	21427	Seq. ID	OJ990807_32.0211.C20
Gene No.	44805	Strand	+
Start	4595	End	6705
Name	OJ990807_32.0211.C20.o3.gs	Method	GENSCAN
Start	4595	End	6683
GI	none	Score	.84
Exons	4595..4773, 5588..5686, 5773..5881, 6230..6301, 6564..6683		

Seq. No.	21427	Seq. ID	OJ990807_32.0211.C20
Gene No.	44806	Strand	-
Start	1102	End	3640
Name	OJ990807_32.0211.C20.o1.np	Method	AAT/NAP
Start	1080	End	2550
GI	849081	Score	514
Exons	1080..1254, 1341..1426, 1514..1568, 2147..2235, 2340..2550		
GI Descrip.	(U17900) cyclophilin B precursor [Orpinomyces sp. PC-2]		

Seq. No.	21427	Seq. ID	OJ990807_32.0211.C20
Gene No.	44806	Strand	-
Start	1102	End	3640
Name	OJ990807_32.0211.C20.o2.gs	Method	GENSCAN
Start	1102	End	3560
GI	none	Score	.67

Exons 1102..1306, 1341..1426, 2147..2235, 2340..2490, 3243..3431, 3531..3560

Seq. No. 21427 Seq. ID OJ990807\_32.0211.C20  
 Gene No. 44806 Strand -  
 Start 1102 End 3640  
 Name OJ990807\_32.0211.C20.o1.gp Method AAT/GAP  
 Start 1155 End 3640  
 GI 3461\_2.R1084 Score 1396  
 Exons 1155..1254, 1341..1426, 1514..1568, 2147..2235, 2340..2490, 3243..3431, 3531..3640

GI Descrip. '461899/sp|P34791|CYP4\_ARATH 2.0e-59 PEPTIDYL-PROLYL CIS-TRANS ISOMERASE, CHLOROPLAST PRECURSOR (PPIASE) (ROTAMASE) (CYCLOPHILIN) (CYCLOSPORIN A-BINDING PROTEIN) >gi\_1076368\_pir\_B53422 peptidylprolyl isomerase (EC 5.2.1.8) ROC4 - Arabidopsis thaliana >gi\_405131 (L14845) cyclophilin [Arabidopsis thaliana] >gi\_1322278 (U42724) cyclophilin [Arabidopsis thaliana]'

Seq. No. 21427 Seq. ID OJ990807\_32.0211.C20  
 Gene No. 44807 Strand -  
 Start 7651 End 8111  
 Name OJ990807\_32.0211.C20.o1.tm Method TBLASTX:Maize  
 Start 1102 End 3401  
 GI none Score 204  
 Exons 1102..1260, 1124..1255, 1341..1433, 1351..1419, 1513..1569, 1515..1571, 1515..1568, 2147..2239, 2148..2237, 2326..2493, 2330..2491, 2338..2493, 3238..3345, 3243..3344, 3360..3401, 3361..3384

Seq. No. 21427 Seq. ID OJ990807\_32.0211.C20  
 Gene No. 44807 Strand -  
 Start 7651 End 8111  
 Name OJ990807\_32.0211.C20.o1.ts Method TBLASTX:Soybean  
 Start 1103 End 2493  
 GI none Score 180  
 Exons 1103..1255, 1111..1260, 1127..1255, 1341..1433, 1354..1419, 1516..1569, 1518..1568, 2147..2236, 2147..2239, 2151..2237, 2154..2243, 2326..2493, 2330..2491

Seq. No. 21427 Seq. ID OJ990807\_32.0211.C20  
 Gene No. 44807 Strand -  
 Start 7651 End 8111  
 Name OJ990807\_32.0211.C20.o1.tc Method TBLASTX:Cress  
 Start 1108 End 2478  
 GI none Score 176  
 Exons 1108..1260, 1127..1261, 1335..1433, 1351..1416, 1513..1569, 1515..1568, 2147..2236, 2147..2239, 2148..2237, 2148..2243, 2149..2238, 2326..2424, 2330..2386, 2386..2478, 2395..2478

Seq. No. 21427 Seq. ID OJ990807\_32.0211.C20  
 Gene No. 44807 Strand -  
 Start 7651 End 8111  
 Name OJ990807\_32.0211.C20.o1.tw Method TBLASTX:Wheat  
 Start 1114 End 2424  
 GI none Score 86  
 Exons 1114..1146, 1135..1248, 1160..1249, 1344..1433, 1346..1396,



1351..1419, 1518..1568, 1522..1569, 2147..2230, 2148..2219,  
2211..2237, 2329..2424, 2330..2392

Seq. No.	21427	Seq. ID	OJ990807_32.0211.C20
Gene No.	44807	Strand	-
Start	7651	End	8111
Name	OJ990807_32.0211.C20.o2.tm	Method	TBLASTX:Maize
Start	4652	End	6679
GI	none	Score	156
Exons	4652..4777, 4654..4773, 4670..4774, 5589..5714, 5592..5687, 5773..5889, 5774..5881, 5775..5930, 6217..6306, 6222..6308, 6223..6306, 6224..6316, 6562..6642, 6563..6673, 6563..6646, 6659..6679		

Seq. No.	21427	Seq. ID	OJ990807_32.0211.C20
Gene No.	44807	Strand	-
Start	7651	End	8111
Name	OJ990807_32.0211.C20.o2.ts	Method	TBLASTX:Soybean
Start	4661	End	6677
GI	none	Score	104
Exons	4661..4777, 5588..5683, 5589..5684, 5771..5881, 5773..5910, 5773..5874, 6218..6298, 6223..6306, 6224..6316, 6228..6308, 6561..6677, 6563..6673		

Seq. No.	21427	Seq. ID	OJ990807_32.0211.C20
Gene No.	44807	Strand	-
Start	7651	End	8111
Name	OJ990807_32.0211.C20.o2.tw	Method	TBLASTX:Wheat
Start	4669	End	5839
GI	none	Score	150
Exons	4669..4773, 4670..4777, 5589..5714, 5595..5687, 5773..5838, 5774..5839		

Seq. No.	21427	Seq. ID	OJ990807_32.0211.C20
Gene No.	44807	Strand	-
Start	7651	End	8111
Name	OJ990807_32.0211.C20.o4.gs	Method	GENSCAN
Start	7651	End	8111
GI	none	Score	.42
Exons	7651..7659, 7813..8111		

Seq. No.	21428	Seq. ID	OJ990807_32.0211.C21
Gene No.	44808	Strand	+
Start	6	End	602
Name	OJ990807_32.0211.C21.o1.gs	Method	GENSCAN
Start	6	End	602
GI	none	Score	.54
Exons	6..83, 528..602		

Seq. No.	21429	Seq. ID	OJ990807_32.0211.C22
Gene No.	44809	Strand	+
Start	22	End	671
Name	OJ990807_32.0211.C22.o1.gs	Method	GENSCAN
Start	22	End	559
GI	none	Score	.7
Exons	22..180, 421..559		

Seq. No.	21429	Seq. ID	OJ990807_32.0211.C22
Gene No.	44809	Strand	+
Start	22	End	671
Name	OJ990807_32.0211.C22.o1.gp	Method	AAT/GAP
Start	341	End	671
GI	none	Score	498
Exons	341..445, 476..671		

Seq. No.	21430	Seq. ID	OJ990807_32.0211.C23
Gene No.	44810	Strand	-
Start	1	End	282
Name	OJ990807_32.0211.C23.o1.np	Method	AAT/NAP
Start	1	End	282
GI	461899	Score	135
Exons	1..101, 240..282		
GI Descrip.	PEPTIDYL-PROLYL CIS-TRANS ISOMERASE, CHLOROPLAST PRECURSOR (PPIASE) (ROTAMASE) (CYCLOPHILIN) (CYCLOSPORIN A-BINDING PROTEIN) gi 1076368 pir  B53422 peptidylprolyl isomerase (EC 5.2.1.8) ROC4 - Arabidopsis thaliana gi 405131 (L14845) cyclophilin [Arabidopsis thaliana] gi 1322278 (U42724) cyclophilin [Arabidopsis thaliana] gi 6899901 emb CAB71910.1  (AL138642) peptidy		

Seq. No.	21430	Seq. ID	OJ990807_32.0211.C23
Gene No.	44810	Strand	-
Start	1	End	282
Name	OJ990807_32.0211.C23.o1.gs	Method	GENSCAN
Start	13	End	101
GI	none	Score	.99
Exons	13..101		

Seq. No.	21430	Seq. ID	OJ990807_32.0211.C23
Gene No.	44810	Strand	-
Start	1	End	282
Name	OJ990807_32.0211.C23.o1.tm	Method	TBLASTX:Maize
Start	13	End	276
GI	none	Score	142
Exons	13..105, 14..103, 14..133, 226..276, 233..259		

Seq. No.	21430	Seq. ID	OJ990807_32.0211.C23
Gene No.	44810	Strand	-
Start	1	End	282
Name	OJ990807_32.0211.C23.o1.ts	Method	TBLASTX:Soybean
Start	13	End	281
GI	none	Score	83
Exons	13..102, 13..105, 17..103, 20..109, 226..276, 233..259, 258..281		

Seq. No.	21431	Seq. ID	OJ990807_32.0211.C25
Gene No.	44811	Strand	-
Start	313	End	842
Name	OJ990807_32.0211.C25.o1.np	Method	AAT/NAP
Start	313	End	839
GI	6119520	Score	291
Exons	313..443, 580..651, 746..839		
GI Descrip.	(AC011560) unknown protein [Arabidopsis thaliana]		

Seq. No.	21431	Seq. ID	OJ990807_32.0211.C25
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Gene No.	44811	Strand	-
Start	313	End	842
Name	OJ990807_32.0211.C25.o1.tm	Method	TBLASTX:Maize
Start	317	End	840
GI	none	Score	155
Exons	317..439, 318..449, 324..452, 580..651, 580..651, 581..652, 719..838, 743..838, 748..840		

Seq. No.	21431	Seq. ID	OJ990807_32.0211.C25
Gene No.	44811	Strand	-
Start	313	End	842
Name	OJ990807_32.0211.C25.o1.tc	Method	TBLASTX:Cress
Start	318	End	842
GI	none	Score	88
Exons	318..449, 324..452, 575..652, 580..651, 743..838, 743..838, 747..842		

Seq. No.	21431	Seq. ID	OJ990807_32.0211.C25
Gene No.	44811	Strand	-
Start	313	End	842
Name	OJ990807_32.0211.C25.o1.ts	Method	TBLASTX:Soybean
Start	318	End	842
GI	none	Score	127
Exons	318..449, 336..452, 575..652, 580..651, 743..838, 743..838, 747..842		

Seq. No.	21431	Seq. ID	OJ990807_32.0211.C25
Gene No.	44811	Strand	-
Start	313	End	842
Name	OJ990807_32.0211.C25.o1.gp	Method	AAT/GAP
Start	332	End	839
GI	14636_1.R1084	Score	433
Exons	332..443, 580..651, 746..839		
GI Descrip.	'4680707/gb AAD27743.1 AF132968_1 1.0e-33 (AF132968) CGI-34 protein [Homo sapiens]'		

Seq. No.	21431	Seq. ID	OJ990807_32.0211.C25
Gene No.	44811	Strand	-
Start	313	End	842
Name	OJ990807_32.0211.C25.o1.gs	Method	GENSCAN
Start	332	End	839
GI	none	Score	.78
Exons	332..443, 580..651, 746..839		

Seq. No.	21432	Seq. ID	OJ990807_32.0211.C27
Gene No.	44812	Strand	-
Start	1	End	639
Name	OJ990807_32.0211.C27.o1.np	Method	AAT/NAP
Start	1	End	639
GI	2498930	Score	726
Exons	1..412, 580..639		
GI Descrip.	DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi 1203794 (U18774) Sog [Drosophila melanogaster]		

Seq. No.	21433	Seq. ID	OJ990707_13.0228.C4
Gene No.	44813	Strand	+
Start	3111	End	3421

Name	OJ990707_13.0228.C4.o1.tm	Method	TBLASTX:Maize
Start	551	End	1799
GI	none	Score	124
Exons	551..661, 551..661, 552..692, 765..839, 766..840, 766..840, 767..841, 768..842, 1461..1562, 1468..1563, 1469..1564, 1469..1564, 1716..1799, 1737..1799		

Seq. No.	21433	Seq. ID	OJ990707_13.0228.C4
Gene No.	44813	Strand	+
Start	3111	End	3421
Name	OJ990707_13.0228.C4.o2.tm	Method	TBLASTX:Maize
Start	2810	End	3233
GI	none	Score	65
Exons	2810..2872, 3074..3223, 3091..3231, 3099..3233		

Seq. No.	21433	Seq. ID	OJ990707_13.0228.C4
Gene No.	44813	Strand	+
Start	3111	End	3421
Name	OJ990707_13.0228.C4.o1.gp	Method	AAT/GAP
Start	3111	End	3421
GI	none	Score	552
Exons	3111..3421		

Seq. No.	21434	Seq. ID	OJ990707_13.0228.C6
Gene No.	44814	Strand	
Start	3	End	609
Name	OJ990707_13.0228.C6.o2.tw	Method	TBLASTX:Wheat
Start	3	End	125
GI	none	Score	136
Exons	3..125, 7..114		

Seq. No.	21434	Seq. ID	OJ990707_13.0228.C6
Gene No.	44814	Strand	
Start	3	End	609
Name	OJ990707_13.0228.C6.o1.ts	Method	TBLASTX:Soybean
Start	9	End	387
GI	none	Score	81
Exons	9..161, 193..387, 197..385		

Seq. No.	21434	Seq. ID	OJ990707_13.0228.C6
Gene No.	44814	Strand	
Start	3	End	609
Name	OJ990707_13.0228.C6.o1.tw	Method	TBLASTX:Wheat
Start	126	End	532
GI	none	Score	43
Exons	126..194, 127..198, 132..197, 199..309, 200..310, 202..312, 283..531, 284..532		

Seq. No.	21434	Seq. ID	OJ990707_13.0228.C6
Gene No.	44814	Strand	
Start	3	End	609
Name	OJ990707_13.0228.C6.o1.tm	Method	TBLASTX:Maize
Start	196	End	609
GI	none	Score	64
Exons	196..609, 269..358		

Seq. No.	21435	Seq. ID	OJ990707_13.0228.C7
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Gene No.	44815	Strand	-
Start	333	End	661
Name	OJ990707_13.0228.C7.ol.gp	Method	AAT/GAP
Start	333	End	661
GI	uC-osflcyp176d12b1	Score	484
Exons	333..570, 594..661		
GI Descrip.	'5803242/dbj AP000399.1 AP000399 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04'		

Seq. No.	21435	Seq. ID	OJ990707_13.0228.C7
Gene No.	44816	Strand	
Start	1514	End	1954
Name	OJ990707_13.0228.C7.ol.ts	Method	TBLASTX:Soybean
Start	1514	End	1937
GI	none	Score	206
Exons	1514..1747, 1539..1745, 1755..1898, 1762..1914, 1895..1930, 1896..1937		

Seq. No.	21435	Seq. ID	OJ990707_13.0228.C7
Gene No.	44816	Strand	
Start	1514	End	1954
Name	OJ990707_13.0228.C7.ol.tm	Method	TBLASTX:Maize
Start	1518	End	1954
GI	none	Score	228
Exons	1518..1739, 1520..1747, 1523..1747, 1753..1890, 1754..1897, 1755..1898, 1756..1899, 1895..1954, 1896..1946		

Seq. No.	21435	Seq. ID	OJ990707_13.0228.C7
Gene No.	44816	Strand	
Start	1514	End	1954
Name	OJ990707_13.0228.C7.ol.tc	Method	TBLASTX:Cress
Start	1523	End	1921
GI	none	Score	169
Exons	1523..1747, 1524..1736, 1755..1898, 1762..1899, 1883..1921		

Seq. No.	21435	Seq. ID	OJ990707_13.0228.C7
Gene No.	44816	Strand	
Start	1514	End	1954
Name	OJ990707_13.0228.C7.ol.tw	Method	TBLASTX:Wheat
Start	1613	End	1954
GI	none	Score	141
Exons	1613..1747, 1614..1739, 1615..1740, 1725..1898, 1726..1914, 1895..1954, 1896..1946		

Seq. No.	21436	Seq. ID	OJ990707_13.0228.C9
Gene No.	44817	Strand	
Start	1463	End	2446
Name	OJ990707_13.0228.C9.ol.tm	Method	TBLASTX:Maize
Start	1463	End	2446
GI	none	Score	62
Exons	1463..1510, 1566..1631, 1568..1633, 1638..1784, 1638..1703, 1645..1719, 1722..1751, 1769..1852, 1779..1850, 1780..1848, 1787..1858, 1794..1856, 1802..1852, 1864..1953, 1866..1910, 1867..1956, 1870..1953, 1872..1907, 1891..1953, 1952..2038, 1955..2125, 1961..2038, 1968..2045, 1975..2139, 1982..2164, 1985..2125, 1987..2133, 1996..2130, 2018..2158, 2018..2140, 2019..2141, 2022..2141, 2033..2173, 2084..2296, 2151..2306,		

2173..2280, 2175..2288, 2181..2282, 2184..2306, 2188..2295,  
2305..2415, 2314..2418, 2323..2412, 2325..2420, 2328..2408,  
2330..2446, 2331..2414, 2336..2431, 2338..2415, 2339..2446,  
2343..2414

Seq. No.	21437	Seq. ID	OJ990707_13.0228.C12
Gene No.	44818	Strand	
Start	1067	End	1459
Name	OJ990707_13.0228.C12.o3.tw	Method	TBLASTX:Wheat
Start	1067	End	1459
GI	none	Score	58
Exons	1067..1114, 1121..1219, 1138..1218, 1186..1347, 1202..1459		

Seq. No.	21437	Seq. ID	OJ990707_13.0228.C12
Gene No.	44818	Strand	
Start	1067	End	1459
Name	OJ990707_13.0228.C12.o2.tm	Method	TBLASTX:Maize
Start	1072	End	1357
GI	none	Score	184
Exons	1072..1356, 1109..1357		

Seq. No.	21437	Seq. ID	OJ990707_13.0228.C12
Gene No.	44819	Strand	
Start	2197	End	2680
Name	OJ990707_13.0228.C12.o2.tw	Method	TBLASTX:Wheat
Start	2197	End	2680
GI	none	Score	414
Exons	2197..2334, 2198..2680, 2210..2359, 2392..2652		

Seq. No.	21437	Seq. ID	OJ990707_13.0228.C12
Gene No.	44820	Strand	
Start	2847	End	3334
Name	OJ990707_13.0228.C12.o1.tw	Method	TBLASTX:Wheat
Start	2847	End	3310
GI	none	Score	211
Exons	2847..3290, 2848..3309, 2849..3310		

Seq. No.	21437	Seq. ID	OJ990707_13.0228.C12
Gene No.	44820	Strand	
Start	2847	End	3334
Name	OJ990707_13.0228.C12.o1.ts	Method	TBLASTX:Soybean
Start	2888	End	3253
GI	none	Score	116
Exons	2888..3112, 3119..3253		

Seq. No.	21437	Seq. ID	OJ990707_13.0228.C12
Gene No.	44820	Strand	
Start	2847	End	3334
Name	OJ990707_13.0228.C12.o1.tm	Method	TBLASTX:Maize
Start	2978	End	3334
GI	none	Score	379
Exons	2978..3334, 3013..3324, 3029..3334		

Seq. No.	21437	Seq. ID	OJ990707_13.0228.C12
Gene No.	44821	Strand	
Start	3311	End	3475
Name	OJ990707_13.0228.C12.o4.tw	Method	TBLASTX:Wheat

[illegible]

Seq. No.	21438
Gene No.	44822
Start	514
Name	OJ990707_13.0228.C13.o1.tw
Start	514
GI	none
Exons	514..702, 515..703

```
Seq. ID   OJ990707_13.0228.C13
Strand
End       703
Method    TBLASTX:Wheat
End       703
Score     180
```

Seq. No.	21439
Gene No.	44823
Start	228
Name	OJ990707_13.0228.C15.o5.tm
Start	228
GI	none
Exons	228..470

```
Seq. ID   OJ990707_13.0228.C15
Strand
End       515
Method    TBLASTX:Maize
End       470
Score     195
```

Seq. No.	21439
Gene No.	44823
Start	228
Name	OJ990707_13.0228.C15.o7.tw
Start	237
GI	none
Exons	237..368, 396..515

```
Seq. ID   OJ990707_13.0228.C15
Strand
End       515
Method    TBLASTX:Wheat
End       515
Score     99
```

Seq. No.	21439
Gene No.	44824
Start	486
Name	OJ990707_13.0228.C15.o3.ts
Start	486
GI	none
Exons	486..710, 717..860

```
Seq. ID      OJ990707_13.0228.C15
Strand
End          1130
Method       TBLASTX:Soybean
End          860
Score        88
```

Seq. No.	21439
Gene No.	44824
Start	486
Name	OJ990707_13.0228.C15.o3.tm
Start	501
GI	none
Exons	501..863, 513..677, 553..771

```
Seq. ID    OJ990707_13.0228.C15
Strand
End        1130
Method     TBLASTX:Maize
End        863
Score      98
```

Seq. No.	21439
Gene No.	44824
Start	486
Name	OJ990707_13.0228.C15.o4.tw
Start	633
GI	none
Exons	633..1022

```
Seq. ID      OJ990707_13.0228.C15
Strand
End          1130
Method       TBLASTX:Wheat
End          1022
Score        251
```

```
Seq. No.      21439
Gene No.     44824
Start        486
Name         OJ990707_13.0228.C15.o4.tm
Start        864
```

```
Seq. ID    OJ990707_13.0228.C15
Strand
End        1130
Method     TBLASTX:Maize
End        1130
```

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GI	none	Score	73
Exons	864..1130, 865..1005		
Seq. No.	21439	Seq. ID	OJ990707_13.0228.C15
Gene No.	44825	Strand	
Start	1332	End	1766
Name	OJ990707_13.0228.C15.o3.tw	Method	TBLASTX:Wheat
Start	1332	End	1764
GI	none	Score	178
Exons	1332..1763, 1333..1764		
Seq. No.	21439	Seq. ID	OJ990707_13.0228.C15
Gene No.	44825	Strand	
Start	1332	End	1766
Name	OJ990707_13.0228.C15.o2.ts	Method	TBLASTX:Soybean
Start	1407	End	1766
GI	none	Score	75
Exons	1407..1766, 1408..1623		
Seq. No.	21439	Seq. ID	OJ990707_13.0228.C15
Gene No.	44826	Strand	
Start	2014	End	3021
Name	OJ990707_13.0228.C15.o1.ts	Method	TBLASTX:Soybean
Start	2014	End	2414
GI	none	Score	60
Exons	2014..2106, 2031..2414, 2221..2361		
Seq. No.	21439	Seq. ID	OJ990707_13.0228.C15
Gene No.	44826	Strand	
Start	2014	End	3021
Name	OJ990707_13.0228.C15.o6.tw	Method	TBLASTX:Wheat
Start	2040	End	2255
GI	none	Score	72
Exons	2040..2255, 2146..2250		
Seq. No.	21439	Seq. ID	OJ990707_13.0228.C15
Gene No.	44826	Strand	
Start	2014	End	3021
Name	OJ990707_13.0228.C15.o1.tm	Method	TBLASTX:Maize
Start	2133	End	2516
GI	none	Score	225
Exons	2133..2516, 2146..2475, 2181..2495		
Seq. No.	21439	Seq. ID	OJ990707_13.0228.C15
Gene No.	44826	Strand	
Start	2014	End	3021
Name	OJ990707_13.0228.C15.o1.tw	Method	TBLASTX:Wheat
Start	2256	End	2675
GI	none	Score	152
Exons	2256..2675, 2257..2469, 2259..2663, 2506..2673		
Seq. No.	21439	Seq. ID	OJ990707_13.0228.C15
Gene No.	44826	Strand	
Start	2014	End	3021
Name	OJ990707_13.0228.C15.o2.tm	Method	TBLASTX:Maize
Start	2544	End	2893
GI	none	Score	62



Exons 2544..2717, 2544..2714, 2545..2718, 2722..2850, 2722..2892, 2726..2893

Seq. No. 21439 Seq. ID OJ990707\_13.0228.C15  
Gene No. 44826 Strand  
Start 2014 End 3021  
Name OJ990707\_13.0228.C15.o2.tw Method TBLASTX:Wheat  
Start 2676 End 3021  
GI none Score 49  
Exons 2676..2714, 2677..2715, 2702..2872, 2722..3021, 2729..2971

Seq. No. 21439 Seq. ID OJ990707\_13.0228.C15  
Gene No. 44827 Strand  
Start 3226 End 3585  
Name OJ990707\_13.0228.C15.o5.tw Method TBLASTX:Wheat  
Start 3226 End 3585  
GI none Score 93  
Exons 3226..3426, 3227..3427, 3454..3585

Seq. No. 21439 Seq. ID OJ990707\_13.0228.C15  
Gene No. 44828 Strand  
Start 4378 End 4722  
Name OJ990707\_13.0228.C15.o8.tw Method TBLASTX:Wheat  
Start 4378 End 4722  
GI none Score 175  
Exons 4378..4722

Seq. No. 21440 Seq. ID OJ990707\_13.0228.C16  
Gene No. 44829 Strand  
Start 63 End 265  
Name OJ990707\_13.0228.C16.o1.tw Method TBLASTX:Wheat  
Start 63 End 265  
GI none Score 81  
Exons 63..212, 64..264, 64..246, 65..265

Seq. No. 21441 Seq. ID OJ990707\_13.0228.C17  
Gene No. 44830 Strand -  
Start 527 End 1256  
Name OJ990707\_13.0228.C17.o1.gp Method AAT/GAP  
Start 527 End 1256  
GI 101153 1.R1084 Score 692  
Exons 527..750, 1068..1256  
GI Descrip. '5852170/emb|AL117265.1|OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'

Seq. No. 21441 Seq. ID OJ990707\_13.0228.C17  
Gene No. 44831 Strand -  
Start 1342 End 1652  
Name OJ990707\_13.0228.C17.o2.gp Method AAT/GAP  
Start 1342 End 1652  
GI 2312818 Score 530  
Exons 1342..1652  
GI Descrip. 5852170/emb|AL117265.1|OST17804 2.0e-27 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804

Seq. No. 21441 Seq. ID OJ990707\_13.0228.C17  
Gene No. 44832 Strand

Start	2261	End	2635
Name	OJ990707_13.0228.C17.o1.tw	Method	TBLASTX:Wheat
Start	2261	End	2635
GI	none	Score	145
Exons	2261..2395, 2275..2397, 2279..2395, 2408..2545, 2525..2635		

Seq. No.	21442	Seq. ID	OJ990707_13.0228.C18
Gene No.	44833	Strand	-
Start	323	End	784
Name	OJ990707_13.0228.C18.o1.gp	Method	AAT/GAP
Start	323	End	784
GI	2428323	Score	846
Exons	323..784		
GI Descrip.	5803242/dbj AP000399.1 AP000399 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04		

Seq. No.	21442	Seq. ID	OJ990707_13.0228.C18
Gene No.	44834	Strand	
Start	907	End	1559
Name	OJ990707_13.0228.C18.o4.tm	Method	TBLASTX:Maize
Start	907	End	1088
GI	none	Score	129
Exons	907..1083, 921..1088		

Seq. No.	21442	Seq. ID	OJ990707_13.0228.C18
Gene No.	44834	Strand	
Start	907	End	1559
Name	OJ990707_13.0228.C18.o5.tw	Method	TBLASTX:Wheat
Start	957	End	1559
GI	none	Score	83
Exons	957..1082, 961..1083, 1268..1558, 1275..1559, 1276..1554		

Seq. No.	21442	Seq. ID	OJ990707_13.0228.C18
Gene No.	44835	Strand	
Start	1560	End	2078
Name	OJ990707_13.0228.C18.o2.tw	Method	TBLASTX:Wheat
Start	1560	End	1941
GI	none	Score	169
Exons	1560..1940, 1591..1839, 1599..1844, 1885..1941		

Seq. No.	21442	Seq. ID	OJ990707_13.0228.C18
Gene No.	44835	Strand	
Start	1560	End	2078
Name	OJ990707_13.0228.C18.o1.tm	Method	TBLASTX:Maize
Start	1755	End	2078
GI	none	Score	200
Exons	1755..2078, 1768..2049		

Seq. No.	21442	Seq. ID	OJ990707_13.0228.C18
Gene No.	44836	Strand	
Start	2271	End	3020
Name	OJ990707_13.0228.C18.o6.tw	Method	TBLASTX:Wheat
Start	2271	End	2583
GI	none	Score	67
Exons	2271..2531, 2407..2583		

Seq. No.	21442	Seq. ID	OJ990707_13.0228.C18
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Gene No.	44836	Strand	
Start	2271	End	3020
Name	OJ990707_13.0228.C18.o2.ts	Method	TBLASTX:Soybean
Start	2331	End	2897
GI	5666795	Score	68
Exons	2331..2531, 2586..2723, 2799..2897		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	21442	Seq. ID	OJ990707_13.0228.C18
Gene No.	44836	Strand	
Start	2271	End	3020
Name	OJ990707_13.0228.C18.o3.tw	Method	TBLASTX:Wheat
Start	2586	End	3020
GI	none	Score	92
Exons	2586..2735, 2587..2724, 2589..2726, 2782..2955, 2796..3020, 2796..3020		

Seq. No.	21442	Seq. ID	OJ990707_13.0228.C18
Gene No.	44837	Strand	
Start	3653	End	4151
Name	OJ990707_13.0228.C18.o1.ts	Method	TBLASTX:Soybean
Start	3653	End	4015
GI	none	Score	90
Exons	3653..4015, 3855..3998		

Seq. No.	21442	Seq. ID	OJ990707_13.0228.C18
Gene No.	44837	Strand	
Start	3653	End	4151
Name	OJ990707_13.0228.C18.o1.tw	Method	TBLASTX:Wheat
Start	3674	End	4094
GI	none	Score	314
Exons	3674..4093, 3678..4094		

Seq. No.	21442	Seq. ID	OJ990707_13.0228.C18
Gene No.	44837	Strand	
Start	3653	End	4151
Name	OJ990707_13.0228.C18.o2.tm	Method	TBLASTX:Maize
Start	3767	End	4151
GI	none	Score	230
Exons	3767..4150, 3786..4151		

Seq. No.	21442	Seq. ID	OJ990707_13.0228.C18
Gene No.	44838	Strand	
Start	4178	End	4497
Name	OJ990707_13.0228.C18.o3.tm	Method	TBLASTX:Maize
Start	4178	End	4497
GI	none	Score	110
Exons	4178..4411, 4178..4453, 4188..4454, 4453..4497		

Seq. No.	21442	Seq. ID	OJ990707_13.0228.C18
Gene No.	44838	Strand	
Start	4178	End	4497
Name	OJ990707_13.0228.C18.o4.tw	Method	TBLASTX:Wheat
Start	4202	End	4455
GI	none	Score	204
Exons	4202..4453, 4209..4454, 4222..4455		

Seq. No.	21443	Seq. ID	OJ990707_13.0228.C19
Gene No.	44839	Strand	
Start	653	End	1045
Name	OJ990707_13.0228.C19.ol.tw	Method	TBLASTX:Wheat
Start	653	End	1045
GI	none	Score	96
Exons	653..910, 687..926, 893..991, 894..986, 998..1045		
Seq. No.	21443	Seq. ID	OJ990707_13.0228.C19
Gene No.	44839	Strand	
Start	653	End	1045
Name	OJ990707_13.0228.C19.ol.tm	Method	TBLASTX:Maize
Start	755	End	1040
GI	none	Score	107
Exons	755..1003, 756..1040		
Seq. No.	21444	Seq. ID	OJ990707_13.0228.C24
Gene No.	44840	Strand	-
Start	2847	End	3353
Name	OJ990707_13.0228.C24.ol.gp	Method	AAT/GAP
Start	2847	End	3353
GI	LIB3477-003-P1-K1-E9	Score	139
Exons	2847..2904, 3305..3353		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		
Seq. No.	21445	Seq. ID	OJ990707_13.0228.C25
Gene No.	44841	Strand	+
Start	176	End	426
Name	OJ990707_13.0228.C25.ol.gp	Method	AAT/GAP
Start	176	End	426
GI	3107859	Score	474
Exons	176..426		
Seq. No.	21446	Seq. ID	OJ990707_13.0228.C26
Gene No.	44842	Strand	+
Start	1	End	641
Name	OJ990707_13.0228.C26.ol.gp	Method	AAT/GAP
Start	1	End	641
GI	uC-osflcyp112h11a1	Score	828
Exons	1..35, 147..195, 292..641		
GI Descrip.	'4176420/dbj BAA37167  2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		
Seq. No.	21447	Seq. ID	OJ990707_13.0228.C28
Gene No.	44843	Strand	
Start	418	End	842
Name	OJ990707_13.0228.C28.ol.tm	Method	TBLASTX:Maize
Start	418	End	842
GI	none	Score	75
Exons	418..597, 455..598, 633..842, 706..840		
Seq. No.	21447	Seq. ID	OJ990707_13.0228.C28
Gene No.	44843	Strand	
Start	418	End	842
Name	OJ990707_13.0228.C28.ol.tw	Method	TBLASTX:Wheat

Start	445	End	842
GI	none	Score	54
Exons	445..603, 518..598, 520..600, 551..625, 645..842, 684..842		

Seq. No.	21448	Seq. ID	OJ990707_13.0228.C31
Gene No.	44844	Strand	
Start	5	End	373
Name	OJ990707_13.0228.C31.o1.tw	Method	TBLASTX:Wheat
Start	5	End	373
GI	none	Score	103
Exons	5..226, 47..214, 64..222, 138..224, 263..373		

Seq. No.	21449	Seq. ID	OJ990707_13.0228.C32
Gene No.	44845	Strand	
Start	302	End	832
Name	OJ990707_13.0228.C32.o1.ts	Method	TBLASTX:Soybean
Start	302	End	793
GI	none	Score	37
Exons	302..343, 374..532, 384..515, 524..736, 524..793, 528..752		

Seq. No.	21449	Seq. ID	OJ990707_13.0228.C32
Gene No.	44845	Strand	
Start	302	End	832
Name	OJ990707_13.0228.C32.o1.tm	Method	TBLASTX:Maize
Start	353	End	605
GI	none	Score	77
Exons	353..577, 371..604, 471..605		

Seq. No.	21449	Seq. ID	OJ990707_13.0228.C32
Gene No.	44845	Strand	
Start	302	End	832
Name	OJ990707_13.0228.C32.o1.tw	Method	TBLASTX:Wheat
Start	381	End	832
GI	none	Score	101
Exons	381..545, 386..565, 404..556, 484..570, 569..820, 570..797, 575..832		

Seq. No.	21449	Seq. ID	OJ990707_13.0228.C32
Gene No.	44846	Strand	
Start	1326	End	1717
Name	OJ990707_13.0228.C32.o2.tw	Method	TBLASTX:Wheat
Start	1326	End	1717
GI	none	Score	87
Exons	1326..1601, 1381..1587, 1560..1625, 1673..1717		

Seq. No.	21450	Seq. ID	OJ990707_13.0228.C33
Gene No.	44847	Strand	
Start	1	End	393
Name	OJ990707_13.0228.C33.o1.tw	Method	TBLASTX:Wheat
Start	1	End	393
GI	none	Score	490
Exons	1..393, 2..322		

Seq. No.	21450	Seq. ID	OJ990707_13.0228.C33
Gene No.	44847	Strand	
Start	1	End	393
Name	OJ990707_13.0228.C33.o1.tm	Method	TBLASTX:Maize

Start 4  
 GI none  
 Exons 4..318, 5..322, 5..331

End 331  
 Score 434

Seq. No. 21450  
 Gene No. 44848  
 Start 398  
 Name OJ990707\_13.0228.C33.o2.tw  
 Start 398  
 GI none  
 Exons 398..733, 425..727

Seq. ID OJ990707\_13.0228.C33  
 Strand  
 End 733  
 Method TBLASTX:Wheat  
 End 733  
 Score 357

Seq. No. 21451  
 Gene No. 44849  
 Start 679  
 Name OJ990707\_13.0228.C35.o1.gp  
 Start 679  
 GI none  
 Exons 679..1201

Seq. ID OJ990707\_13.0228.C35  
 Strand -  
 End 1201  
 Method AAT/GAP  
 End 1201  
 Score 1038

Seq. No. 21452  
 Gene No. 44850  
 Start 748  
 Name OJ990707\_13.0228.C38.o1.gp  
 Start 748  
 GI 2311800  
 Exons 748..972

Seq. ID OJ990707\_13.0228.C38  
 Strand -  
 End 972  
 Method AAT/GAP  
 End 972  
 Score 421

Seq. No. 21453  
 Gene No. 44851  
 Start 1  
 Name OJ990707\_13.0228.C41.o1.gp  
 Start 1  
 GI none  
 Exons 1..114, 896..948, 1398..1417

Seq. ID OJ990707\_13.0228.C41  
 Strand -  
 End 1417  
 Method AAT/GAP  
 End 1417  
 Score 269

Seq. No. 21454  
 Gene No. 44852  
 Start 58  
 Name OJ990707\_13.0228.C46.o1.gp  
 Start 58  
 GI uC-osflcyp033a04b1  
 Exons 58..439

Seq. ID OJ990707\_13.0228.C46  
 Strand -  
 End 439  
 Method AAT/GAP  
 End 439  
 Score 643

GI Descrip. '6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'

Seq. No. 21455  
 Gene No. 44853  
 Start 2312  
 Name OJ990707\_13.0228.C47.o2.gp  
 Start 2312  
 GI uC-osflcyp033a04b1  
 Exons 2312..2694

Seq. ID OJ990707\_13.0228.C47  
 Strand +  
 End 2694  
 Method AAT/GAP  
 End 2694  
 Score 704

GI Descrip. '6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'

Seq. No. 21456

Seq. ID OJ990707\_13.0228.C48

Gene No.	44854	Strand	
Start	818	End	1180
Name	OJ990707_13.0228.C48.o1.ts	Method	TBLASTX:Soybean
Start	818	End	1180
GI	none	Score	195
Exons	818..1180		
Seq. No.	21457	Seq. ID	OJ990707_13.0228.C50
Gene No.	44855	Strand	+
Start	2	End	321
Name	OJ990707_13.0228.C50.o1.gp	Method	AAT/GAP
Start	2	End	321
GI	5607329	Score	586
Exons	2..321		
GI Descrip.	391884/dbj D16640 RICOSVP1 1.0e-62 Rice DNA for VP1 protein, complete cds		
Seq. No.	21457	Seq. ID	OJ990707_13.0228.C50
Gene No.	44856	Strand	+
Start	411	End	610
Name	OJ990707_13.0228.C50.o2.gp	Method	AAT/GAP
Start	411	End	610
GI	5607328	Score	396
Exons	411..610		
GI Descrip.	586238/sp P37398 VIV_ORYSA 2.0e-51 VIVIPAROUS PROTEIN HOMOLOG >gi_632294_pir_S48899 VP1 protein (OSVP1) - Oryza sativa >gi_391885_dbj_BAA04066_ (D16640) VP1 protein (OSVP1) [Oryza sativa]		
Seq. No.	21458	Seq. ID	OJ990707_13.0228.C60
Gene No.	44857	Strand	
Start	13	End	416
Name	OJ990707_13.0228.C60.o1.tw	Method	TBLASTX:Wheat
Start	13	End	368
GI	none	Score	175
Exons	13..207, 14..184, 18..215, 219..302, 223..303, 285..368		
Seq. No.	21458	Seq. ID	OJ990707_13.0228.C60
Gene No.	44857	Strand	
Start	13	End	416
Name	OJ990707_13.0228.C60.o1.tm	Method	TBLASTX:Maize
Start	39	End	416
GI	none	Score	79
Exons	39..416, 46..240		
Seq. No.	21459	Seq. ID	OJ990707_13.0228.C63
Gene No.	44858	Strand	
Start	2163	End	2430
Name	OJ990707_13.0228.C63.o2.tc	Method	TBLASTX:Cress
Start	2163	End	2430
GI	none	Score	150
Exons	2163..2339, 2167..2358, 2347..2430		
Seq. No.	21459	Seq. ID	OJ990707_13.0228.C63
Gene No.	44859	Strand	
Start	2374	End	2814
Name	OJ990707_13.0228.C63.o1.ts	Method	TBLASTX:Soybean

Start	2374	End	2781
GI	none	Score	207
Exons	2374..2781, 2383..2763, 2509..2781		

Seq. No.	21459	Seq. ID	OJ990707_13.0228.C63
Gene No.	44859	Strand	
Start	2374	End	2814
Name	OJ990707_13.0228.C63.ol.tm	Method	TBLASTX:Maize
Start	2389	End	2814
GI	none	Score	306
Exons	2389..2814, 2400..2780		

Seq. No.	21459	Seq. ID	OJ990707_13.0228.C63
Gene No.	44859	Strand	
Start	2374	End	2814
Name	OJ990707_13.0228.C63.ol.tc	Method	TBLASTX:Cress
Start	2476	End	2784
GI	none	Score	201
Exons	2476..2778, 2482..2637, 2553..2777, 2605..2784, 2668..2781		

Seq. No.	21460	Seq. ID	OJ990707_13.0228.C65
Gene No.	44860	Strand	
Start	572	End	1180
Name	OJ990707_13.0228.C65.ol.tw	Method	TBLASTX:Wheat
Start	572	End	1180
GI	none	Score	63
Exons	572..703, 576..698, 728..1180, 924..1031, 992..1165		

Seq. No.	21460	Seq. ID	OJ990707_13.0228.C65
Gene No.	44860	Strand	
Start	572	End	1180
Name	OJ990707_13.0228.C65.ol.tm	Method	TBLASTX:Maize
Start	608	End	874
GI	none	Score	47
Exons	608..691, 609..701, 686..805, 692..874		

Seq. No.	21461	Seq. ID	OJ990707_13.0228.C67
Gene No.	44861	Strand	-
Start	1	End	272
Name	OJ990707_13.0228.C67.ol.gp	Method	AAT/GAP
Start	1	End	266
GI	44750_1.R1084	Score	508
Exons	1..266		

GI Descrip. '1657619 4.0e-18 (U72504) G5p [Arabidopsis thaliana] >gi\_3068710 (AF049236) putative transmembrane protein G5p [Arabidopsis thaliana]'

Seq. No.	21461	Seq. ID	OJ990707_13.0228.C67
Gene No.	44861	Strand	-
Start	1	End	272
Name	OJ990707_13.0228.C67.ol.tc	Method	TBLASTX:Cress
Start	2	End	220
GI	none	Score	82
Exons	2..220, 23..196		

Seq. No.	21461	Seq. ID	OJ990707_13.0228.C67
Gene No.	44861	Strand	-



Start 1  
 Name OJ990707\_13.0228.C67.ol.tm  
 Start 2  
 GI none  
 Exons 2..265, 6..272

End 272  
 Method TBLASTX:Maize  
 End 272  
 Score 239

Seq. No. 21461  
 Gene No. 44861  
 Start 1  
 Name OJ990707\_13.0228.C67.ol.ts  
 Start 2  
 GI none  
 Exons 2..220, 6..221

Seq. ID OJ990707\_13.0228.C67  
 Strand -  
 End 272  
 Method TBLASTX:Soybean  
 End 221  
 Score 105

Seq. No. 21461  
 Gene No. 44861  
 Start 1  
 Name OJ990707\_13.0228.C67.ol.tw  
 Start 72  
 GI none  
 Exons 72..272, 74..265, 87..266

Seq. ID OJ990707\_13.0228.C67  
 Strand -  
 End 272  
 Method TBLASTX:Wheat  
 End 272  
 Score 143

Seq. No. 21462  
 Gene No. 44862  
 Start 164  
 Name OJ990707\_13.0228.C68.ol.gp  
 Start 164  
 GI 44750\_1.R1084  
 Exons 164..272

Seq. ID OJ990707\_13.0228.C68  
 Strand +  
 End 272  
 Method AAT/GAP  
 End 272  
 Score 166

GI Descrip. '1657619 4.0e-18 (U72504) G5p [Arabidopsis thaliana] >gi\_3068710 (AF049236) putative transmembrane protein G5p [Arabidopsis thaliana]'

Seq. No. 21463  
 Gene No. 44863  
 Start 33  
 Name OJ990707\_13.0228.C69.ol.tm  
 Start 33  
 GI none  
 Exons 33..380, 71..379, 139..381

Seq. ID OJ990707\_13.0228.C69  
 Strand  
 End 697  
 Method TBLASTX:Maize  
 End 381  
 Score 287

Seq. No. 21463  
 Gene No. 44863  
 Start 33  
 Name OJ990707\_13.0228.C69.ol.ts  
 Start 225  
 GI none  
 Exons 225..350, 374..505, 375..599

Seq. ID OJ990707\_13.0228.C69  
 Strand  
 End 697  
 Method TBLASTX:Soybean  
 End 599  
 Score 92

Seq. No. 21463  
 Gene No. 44863  
 Start 33  
 Name OJ990707\_13.0228.C69.ol.tw  
 Start 237  
 GI none  
 Exons 237..311, 242..310, 244..312,

Seq. ID OJ990707\_13.0228.C69  
 Strand  
 End 697  
 Method TBLASTX:Wheat  
 End 697  
 Score 90  
 326..697, 332..679, 333..695

Seq. No.	21464	Seq. ID	OJ990707_13.0228.C70
Gene No.	44864	Strand	
Start	337	End	629
Name	OJ990707_13.0228.C70.ol.tw	Method	TBLASTX:Wheat
Start	337	End	629
GI	none	Score	81
Exons	337..399, 339..398, 341..400, 399..473, 400..477, 402..470, 403..477, 464..577, 476..589, 486..593, 585..629		

Seq. No.	21464	Seq. ID	OJ990707_13.0228.C70
Gene No.	44865	Strand	
Start	6572	End	7543
Name	OJ990707_13.0228.C70.ol.ts	Method	TBLASTX:Soybean
Start	6572	End	7543
GI	none	Score	98
Exons	6572..6778, 6857..7021, 7019..7216, 7430..7543		

Seq. No.	21465	Seq. ID	OJ990707_13.0228.C76
Gene No.	44866	Strand	
Start	2	End	128
Name	OJ990707_13.0228.C76.ol.tm	Method	TBLASTX:Maize
Start	2	End	116
GI	none	Score	192
Exons	2..115, 3..116		

Seq. No.	21465	Seq. ID	OJ990707_13.0228.C76
Gene No.	44866	Strand	
Start	2	End	128
Name	OJ990707_13.0228.C76.ol.tw	Method	TBLASTX:Wheat
Start	2	End	128
GI	none	Score	208
Exons	2..127, 3..128, 3..128		

Seq. No.	21466	Seq. ID	OJ990707_13.0228.C78
Gene No.	44867	Strand	+
Start	1	End	310
Name	OJ990707_13.0228.C78.ol.gp	Method	AAT/GAP
Start	1	End	310
GI	26937_1.R1084	Score	376
Exons	1..111, 190..310		
GI Descrip.	'586238/sp P37398 VIV_ORYSA 2.0e-51 VIVIPAROUS PROTEIN HOMOLOG >gi_632294_pir_S48899 VP1 protein (OSVP1) - Oryza sativa >gi_391885_dbj_BAA04066_ (D16640) VP1 protein (OSVP1) [Oryza sativa]'		

Seq. No.	21466	Seq. ID	OJ990707_13.0228.C78
Gene No.	44867	Strand	+
Start	1	End	310
Name	OJ990707_13.0228.C78.ol.tm	Method	TBLASTX:Maize
Start	1	End	276
GI	none	Score	169
Exons	1..114, 2..109, 3..113, 151..276, 177..275		

Seq. No.	21466	Seq. ID	OJ990707_13.0228.C78
Gene No.	44867	Strand	+
Start	1	End	310
Name	OJ990707_13.0228.C78.ol.ts	Method	TBLASTX:Soybean

Start	1	End	270
GI	none	Score	124
Exons	1..108, 1..108, 3..116, 6..116, 187..270		

Seq. No.	21467	Seq. ID	OJ990707_13.0228.C79
Gene No.	44868	Strand	
Start	52	End	471
Name	OJ990707_13.0228.C79.o1.tm	Method	TBLASTX:Maize
Start	52	End	471
GI	none	Score	80
Exons	52..165, 53..160, 61..177, 245..301, 250..297, 422..469, 427..471		

Seq. No.	21467	Seq. ID	OJ990707_13.0228.C79
Gene No.	44868	Strand	
Start	52	End	471
Name	OJ990707_13.0228.C79.o1.ts	Method	TBLASTX:Soybean
Start	60	End	471
GI	none	Score	54
Exons	60..116, 61..159, 245..301, 245..298, 427..471, 428..469		

Seq. No.	21468	Seq. ID	OJ990707_13.0228.C84
Gene No.	44869	Strand	
Start	344	End	835
Name	OJ990707_13.0228.C84.o1.tm	Method	TBLASTX:Maize
Start	344	End	706
GI	none	Score	362
Exons	344..667, 373..654, 659..706		

Seq. No.	21468	Seq. ID	OJ990707_13.0228.C84
Gene No.	44869	Strand	
Start	344	End	835
Name	OJ990707_13.0228.C84.o1.tw	Method	TBLASTX:Wheat
Start	481	End	835
GI	none	Score	369
Exons	481..537, 482..835, 583..831		

Seq. No.	21469	Seq. ID	OJ990707_13.0228.C85
Gene No.	44870	Strand	
Start	125	End	407
Name	OJ990707_13.0228.C85.o1.tm	Method	TBLASTX:Maize
Start	125	End	320
GI	none	Score	124
Exons	125..319, 128..319, 204..320		

Seq. No.	21469	Seq. ID	OJ990707_13.0228.C85
Gene No.	44870	Strand	
Start	125	End	407
Name	OJ990707_13.0228.C85.o1.tw	Method	TBLASTX:Wheat
Start	185	End	407
GI	none	Score	138
Exons	185..316, 185..322, 204..320, 333..407		

Seq. No.	21470	Seq. ID	OJ990707_13.0228.C87
Gene No.	44871	Strand	
Start	217	End	583
Name	OJ990707_13.0228.C87.o1.tw	Method	TBLASTX:Wheat

Start	217	End	583
GI	none	Score	203
Exons	217..435, 218..442, 449..583, 502..573		

Seq. No.	21471	Seq. ID	OJ990827_13.0204.C10
Gene No.	44872	Strand	+
Start	2634	End	3217
Name	OJ990827_13.0204.C10.o1.gs	Method	GENSCAN
Start	2634	End	3217
GI	none	Score	.83
Exons	2634..2897, 3106..3217		

Seq. No.	21472	Seq. ID	OJ990827_13.0204.C11
Gene No.	44873	Strand	-
Start	189	End	486
Name	OJ990827_13.0204.C11.o1.gp	Method	AAT/GAP
Start	189	End	486
GI	none	Score	493
Exons	189..486		

Seq. No.	21472	Seq. ID	OJ990827_13.0204.C11
Gene No.	44874	Strand	-
Start	416	End	2369
Name	OJ990827_13.0204.C11.o1.np	Method	AAT/NAP
Start	416	End	2369
GI	4580397	Score	330
Exons	416..671, 907..1049, 1420..1701, 1945..2044, 2160..2248, 2342..2369		
GI Descrip.	(AC007171) putative ATP-dependent RNA helicase [Arabidopsis thaliana]		

Seq. No.	21472	Seq. ID	OJ990827_13.0204.C11
Gene No.	44874	Strand	-
Start	416	End	2369
Name	OJ990827_13.0204.C11.o1.tm	Method	TBLASTX:Maize
Start	419	End	1995
GI	none	Score	287
Exons	419..694, 420..728, 918..1097, 919..1095, 925..1113, 926..1114, 1439..1543, 1441..1545, 1541..1702, 1546..1701, 1547..1702, 1940..1978, 1942..1995		

Seq. No.	21472	Seq. ID	OJ990827_13.0204.C11
Gene No.	44874	Strand	-
Start	416	End	2369
Name	OJ990827_13.0204.C11.o1.gs	Method	GENSCAN
Start	461	End	2248
GI	none	Score	.81
Exons	461..692, 925..1094, 1444..1701, 1945..2044, 2160..2248		

Seq. No.	21472	Seq. ID	OJ990827_13.0204.C11
Gene No.	44874	Strand	-
Start	416	End	2369
Name	OJ990827_13.0204.C11.o2.gp	Method	AAT/GAP
Start	911	End	2221
GI	16381_1.R1084	Score	1067
Exons	911..1094, 1444..1701, 1945..2044, 2160..2221		
GI Descrip.	'4580397/gb AAD24375.1 AC007171_11.6.0e-28 (AC007171) putative		

RNA helicase [*Arabidopsis thaliana*]'

Seq. No.	21472	Seq. ID	OJ990827_13.0204.C11
Gene No.	44874	Strand	-
Start	416	End	2369
Name	OJ990827_13.0204.C11.o1.ts	Method	TBLASTX:Soybean
Start	1597	End	2369
GI	none	Score	116
Exons	1597..1701, 1940..2041, 1942..2043, 2159..2251, 2175..2249, 2339..2368, 2340..2369		

Seq. No.	21472	Seq. ID	OJ990827_13.0204.C11
Gene No.	44874	Strand	-
Start	416	End	2369
Name	OJ990827_13.0204.C11.o1.tc	Method	TBLASTX:Cress
Start	1945	End	2251
GI	none	Score	77
Exons	1945..2043, 1946..2044, 2159..2251, 2160..2249		

Seq. No.	21473	Seq. ID	OJ990827_13.0204.C12
Gene No.	44875	Strand	+
Start	179	End	3551
Name	OJ990827_13.0204.C12.o1.gs	Method	GENSCAN
Start	179	End	3551
GI	none	Score	.52
Exons	179..389, 1310..1363, 1472..1928, 2058..2227, 2521..2594, 3240..3345, 3472..3551		

Seq. No.	21473	Seq. ID	OJ990827_13.0204.C12
Gene No.	44876	Strand	-
Start	1	End	333
Name	OJ990827_13.0204.C12.o1.np	Method	AAT/NAP
Start	1	End	333
GI	4580397	Score	243
Exons	1..67, 125..333		
GI Descrip.	(AC007171) putative ATP-dependent RNA helicase [ <i>Arabidopsis thaliana</i> ]		

Seq. No.	21473	Seq. ID	OJ990827_13.0204.C12
Gene No.	44877	Strand	-
Start	3807	End	4188
Name	OJ990827_13.0204.C12.o1.gp	Method	AAT/GAP
Start	3807	End	4188
GI	3768823	Score	553
Exons	3807..4188		

Seq. No.	21474	Seq. ID	OJ990827_13.0204.C13
Gene No.	44878	Strand	+
Start	2331	End	3836
Name	OJ990827_13.0204.C13.o2.gs	Method	GENSCAN
Start	2331	End	3836
GI	none	Score	.56
Exons	2331..2423, 3519..3836		

Seq. No.	21474	Seq. ID	OJ990827_13.0204.C13
Gene No.	44879	Strand	-
Start	976	End	1452

Name	OJ990827_13.0204.C13.o1.gs	Method	GENSCAN
Start	976	End	1419
GI	none	Score	.48
Exons	976..1419		

Seq. No.	21474	Seq. ID	OJ990827_13.0204.C13
Gene No.	44879	Strand	-
Start	976	End	1452
Name	OJ990827_13.0204.C13.o1.np	Method	AAT/NAP
Start	997	End	1452
GI	6143874	Score	253
Exons	997..1452		
GI Descrip.	(AC010927) unknown protein [Arabidopsis thaliana]		

Seq. No.	21474	Seq. ID	OJ990827_13.0204.C13
Gene No.	44880	Strand	-
Start	4558	End	8889
Name	OJ990827_13.0204.C13.o1.tc	Method	TBLASTX:Cress
Start	1129	End	1350
GI	none	Score	61
Exons	1129..1242, 1181..1243, 1261..1350, 1262..1348		

Seq. No.	21474	Seq. ID	OJ990827_13.0204.C13
Gene No.	44880	Strand	-
Start	4558	End	8889
Name	OJ990827_13.0204.C13.o1.tw	Method	TBLASTX:Wheat
Start	1129	End	1420
GI	none	Score	57
Exons	1129..1260, 1131..1154, 1166..1255, 1219..1398, 1235..1420		

Seq. No.	21474	Seq. ID	OJ990827_13.0204.C13
Gene No.	44880	Strand	-
Start	4558	End	8889
Name	OJ990827_13.0204.C13.o1.tm	Method	TBLASTX:Maize
Start	1129	End	1414
GI	none	Score	46
Exons	1129..1254, 1131..1154, 1166..1255, 1219..1401, 1235..1414		

Seq. No.	21474	Seq. ID	OJ990827_13.0204.C13
Gene No.	44880	Strand	-
Start	4558	End	8889
Name	OJ990827_13.0204.C13.o1.gp	Method	AAT/GAP
Start	4445	End	4801
GI	5003392	Score	688
Exons	4445..4801		

Seq. No.	21474	Seq. ID	OJ990827_13.0204.C13
Gene No.	44880	Strand	-
Start	4558	End	8889
Name	OJ990827_13.0204.C13.o3.gs	Method	GENSCAN
Start	4558	End	8587
GI	none	Score	.7
Exons	4558..4935, 5074..5292, 5487..5554, 5674..5734, 7389..7520, 7751..7830, 8171..8362, 8428..8587		

Seq. No.	21474	Seq. ID	OJ990827_13.0204.C13
Gene No.	44880	Strand	-

Start	4558	End	8889
Name	OJ990827_13.0204.C13.o2.np	Method	AAT/NAP
Start	4564	End	8889
GI	3193332	Score	301
Exons	4564..4670, 4785..4935, 5106..5292, 7389..7520, 7572..7671, 8037..8246, 8808..8889		
GI Descrip.	(AF069299) similar to Arabidopsis AT-hook protein 1 (GB:AJ222585) [Arabidopsis thaliana]		

Seq. No.	21474	Seq. ID	OJ990827_13.0204.C13
Gene No.	44880	Strand	-
Start	4558	End	8889
Name	OJ990827_13.0204.C13.o2.tm	Method	TBLASTX:Maize
Start	4787	End	7656
GI	none	Score	36
Exons	4787..4813, 4883..4939, 4885..4938, 5050..5235, 5132..5254, 5171..5293, 5221..5295, 5233..5295, 7389..7520, 7390..7521, 7622..7654, 7624..7656		

Seq. No.	21474	Seq. ID	OJ990827_13.0204.C13
Gene No.	44880	Strand	-
Start	4558	End	8889
Name	OJ990827_13.0204.C13.o2.gp	Method	AAT/GAP
Start	7618	End	8565
GI	none	Score	870
Exons	7618..7691, 8171..8565		

Seq. No.	21475	Seq. ID	OJ990827_13.0204.C15
Gene No.	44881	Strand	-
Start	90	End	7996
Name	OJ990827_13.0204.C15.o1.gs	Method	GENSCAN
Start	90	End	7996
GI	none	Score	.68
Exons	90..217, 301..434, 724..1104, 1180..1272, 4831..4876, 7677..7828, 7929..7996		

Seq. No.	21475	Seq. ID	OJ990827_13.0204.C15
Gene No.	44882	Strand	-
Start	8667	End	10722
Name	OJ990827_13.0204.C15.o2.gs	Method	GENSCAN
Start	8667	End	10722
GI	none	Score	.68
Exons	8667..8975, 9107..9210, 10644..10722		

Seq. No.	21476	Seq. ID	OJ990827_13.0204.C16
Gene No.	44883	Strand	+
Start	1	End	1052
Name	OJ990827_13.0204.C16.o1.gp	Method	AAT/GAP
Start	1	End	244
GI	3061236	Score	465
Exons	1..244		

Seq. No.	21476	Seq. ID	OJ990827_13.0204.C16
Gene No.	44883	Strand	+
Start	1	End	1052
Name	OJ990827_13.0204.C16.o1.gs	Method	GENSCAN
Start	39	End	1052

GI	none	Score	.98
Exons	39..1052		
Seq. No.	21476	Seq. ID	OJ990827_13.0204.C16
Gene No.	44884	Strand	+
Start	1959	End	3487
Name	OJ990827_13.0204.C16.o2.gs	Method	GENSCAN
Start	1959	End	3487
GI	none	Score	.9
Exons	1959..2180, 2182..2340, 3341..3487		

Seq. No.	21476	Seq. ID	OJ990827_13.0204.C16
Gene No.	44885	Strand	-
Start	6981	End	7043
Name	OJ990827_13.0204.C16.o1.ts	Method	TBLASTX:Soybean
Start	717	End	968
GI	none	Score	142
Exons	717..863, 767..826, 842..943, 843..968		

Seq. No.	21476	Seq. ID	OJ990827_13.0204.C16
Gene No.	44885	Strand	-
Start	6981	End	7043
Name	OJ990827_13.0204.C16.o3.gs	Method	GENSCAN
Start	6981	End	7043
GI	none	Score	.47
Exons	6981..7043		

Seq. No.	21477	Seq. ID	OJ990827_13.0204.C17
Gene No.	44886	Strand	+
Start	233	End	943
Name	OJ990827_13.0204.C17.o1.gs	Method	GENSCAN
Start	233	End	943
GI	none	Score	.58
Exons	233..416, 516..943		

Seq. No.	21478	Seq. ID	OJ990827_13.0204.C19
Gene No.	44887	Strand	+
Start	3252	End	5347
Name	OJ990827_13.0204.C19.o2.gs	Method	GENSCAN
Start	3252	End	5304
GI	none	Score	.55
Exons	3252..3326, 3805..3897, 3944..3968, 4665..4794, 4827..4934, 5163..5304		

Seq. No.	21478	Seq. ID	OJ990827_13.0204.C19
Gene No.	44887	Strand	+
Start	3252	End	5347
Name	OJ990827_13.0204.C19.o2.np	Method	AAT/NAP
Start	3265	End	5347
GI	5922620	Score	542
Exons	3265..3418, 3942..3968, 4761..4974, 5022..5197, 5234..5347		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6016853 dbj BAA85196.1  (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		



Seq. No.	21478	Seq. ID	OJ990827_13.0204.C19
Gene No.	44888	Strand	-
Start	2517	End	2991
Name	OJ990827_13.0204.C19.o1.np	Method	AAT/NAP
Start	2517	End	2991
GI	6539570	Score	163
Exons	2517..2583, 2797..2991		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	21479	Seq. ID	OJ990827_13.0204.C20
Gene No.	44889	Strand	+
Start	1	End	784
Name	OJ990827_13.0204.C20.o1.np	Method	AAT/NAP
Start	1	End	784
GI	5922620	Score	303
Exons	1..31, 79..254, 291..375, 654..784		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6016853 dbj BAA85196.1  (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	21480	Seq. ID	OJ990827_13.0204.C21
Gene No.	44890	Strand	+
Start	882	End	1553
Name	OJ990827_13.0204.C21.o1.gs	Method	GENSCAN
Start	882	End	1553
GI	none	Score	.59
Exons	882..963, 1387..1553		

Seq. No.	21480	Seq. ID	OJ990827_13.0204.C21
Gene No.	44891	Strand	-
Start	692	End	1811
Name	OJ990827_13.0204.C21.o1.np	Method	AAT/NAP
Start	692	End	1811
GI	6063554	Score	117
Exons	692..952, 1786..1811		
GI Descrip.	(AP000615) ESTs AU075609(C63344), C71850(E0464), C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	21480	Seq. ID	OJ990827_13.0204.C21
Gene No.	44891	Strand	-
Start	692	End	1811
Name	OJ990827_13.0204.C21.o2.np	Method	AAT/NAP
Start	1420	End	1811
GI	5852178	Score	141
Exons	1420..1514, 1718..1811		
GI Descrip.	(AL117265) zhb0008.1 [Oryza sativa]		

Seq. No.	21481	Seq. ID	OJ990827_13.0204.C22
Gene No.	44892	Strand	-
Start	1496	End	1711
Name	OJ990827_13.0204.C22.o1.np	Method	AAT/NAP
Start	747	End	1711
GI	6630699	Score	73
Exons	747..824, 1691..1711		

GI Descrip. (AP000969) hypothetical protein [Oryza sativa]  
gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein  
[Oryza sativa]

Seq. No.	21481	Seq. ID	OJ990827_13.0204.C22
Gene No.	44892	Strand	-
Start	1496	End	1711
Name	OJ990827_13.0204.C22.o1.gs	Method	GENSCAN
Start	1496	End	1699
GI	none	Score	.98
Exons	1496..1699		

Seq. No.	21482	Seq. ID	OJ990827_13.0204.C23
Gene No.	44893	Strand	+
Start	1428	End	5232
Name	OJ990827_13.0204.C23.o1.gs	Method	GENSCAN
Start	1428	End	5232
GI	none	Score	.45
Exons	1428..1461, 1575..1746, 2689..2754, 3052..3421, 5075..5232		

Seq. No.	21482	Seq. ID	OJ990827_13.0204.C23
Gene No.	44893	Strand	+
Start	1428	End	5232
Name	OJ990827_13.0204.C23.o2.gp	Method	AAT/GAP
Start	5010	End	5223
GI	none	Score	378
Exons	5010..5223		

Seq. No.	21482	Seq. ID	OJ990827_13.0204.C23
Gene No.	44894	Strand	-
Start	4195	End	4657
Name	OJ990827_13.0204.C23.o1.gp	Method	AAT/GAP
Start	4195	End	4657
GI	LIB3432-059-P1-K1-D8	Score	732
Exons	4195..4657		
GI Descrip.	'5734616/dbj AP000391.1 AP000391 0.0e+00 Oryza sativa-genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	21483	Seq. ID	OJ990827_13.0204.C24
Gene No.	44895	Strand	+
Start	3363	End	5972
Name	OJ990827_13.0204.C24.o2.np	Method	AAT/NAP
Start	3363	End	5972
GI	4371296	Score	72
Exons	3363..3391, 5787..5972		
GI Descrip.	(AC006260) putative receptor-like protein kinase [Arabidopsis thaliana]		

Seq. No.	21483	Seq. ID	OJ990827_13.0204.C24
Gene No.	44895	Strand	+
Start	3363	End	5972
Name	OJ990827_13.0204.C24.o1.np	Method	AAT/NAP
Start	4986	End	5972
GI	4581155	Score	392
Exons	4986..5042, 5404..5972		
GI Descrip.	(AC006919) putative receptor-like protein kinase [Arabidopsis thaliana]		

Seq. No.	21483	Seq. ID	OJ990827_13.0204.C24
Gene No.	44895	Strand	+
Start	3363	End	5972
Name	OJ990827_13.0204.C24.o1.tc	Method	TBLASTX:Cress
Start	5413	End	5667
GI	none	Score	256
Exons	5413..5667, 5415..5528		
Seq. No.	21483	Seq. ID	OJ990827_13.0204.C24
Gene No.	44895	Strand	+
Start	3363	End	5972
Name	OJ990827_13.0204.C24.o1.ts	Method	TBLASTX:Soybean
Start	5413	End	5670
GI	none	Score	116
Exons	5413..5547, 5415..5537, 5542..5670		
Seq. No.	21484	Seq. ID	OJ990827_13.0204.C25
Gene No.	44896	Strand	+
Start	1	End	1193
Name	OJ990827_13.0204.C25.o1.np	Method	AAT/NAP
Start	1	End	1166
GI	4581155	Score	1029
Exons	1..380, 476..1166		
GI Descrip.	(AC006919) putative receptor-like protein kinase [Arabidopsis thaliana]		
Seq. No.	21484	Seq. ID	OJ990827_13.0204.C25
Gene No.	44896	Strand	+
Start	1	End	1193
Name	OJ990827_13.0204.C25.o1.gs	Method	GENSCAN
Start	180	End	1193
GI	none	Score	.82
Exons	180..380, 476..774, 789..1193		
Seq. No.	21484	Seq. ID	OJ990827_13.0204.C25
Gene No.	44897	Strand	+
Start	1166	End	1476
Name	OJ990827_13.0204.C25.o1.gp	Method	AAT/GAP
Start	1166	End	1476
GI	none	Score	552
Exons	1166..1476		
Seq. No.	21484	Seq. ID	OJ990827_13.0204.C25
Gene No.	44898	Strand	+
Start	2558	End	5528
Name	OJ990827_13.0204.C25.o1.tm	Method	TBLASTX:Maize
Start	82	End	1112
GI	none	Score	120
Exons	82..207, 275..382, 469..570, 591..776, 592..780, 900..1088, 900..1112		
Seq. No.	21484	Seq. ID	OJ990827_13.0204.C25
Gene No.	44898	Strand	+
Start	2558	End	5528
Name	OJ990827_13.0204.C25.o2.ts	Method	TBLASTX:Soybean
Start	85	End	542

GI	none	Score	155
Exons	85..207, 132..200, 209..382, 307..381, 469..516, 474..542		
Seq. No.	21484	Seq. ID	OJ990827_13.0204.C25
Gene No.	44898	Strand	+
Start	2558	End	5528
Name	OJ990827_13.0204.C25.o1.tc	Method	TBLASTX:Cress
Start	97	End	1088
GI	none	Score	94
Exons	97..207, 233..382, 469..564, 574..780, 894..1007, 978..1088		
Seq. No.	21484	Seq. ID	OJ990827_13.0204.C25
Gene No.	44898	Strand	+
Start	2558	End	5528
Name	OJ990827_13.0204.C25.o1.ts	Method	TBLASTX:Soybean
Start	546	End	1172
GI	none	Score	317
Exons	546..803, 559..780, 891..1118, 891..1172		
Seq. No.	21484	Seq. ID	OJ990827_13.0204.C25
Gene No.	44898	Strand	+
Start	2558	End	5528
Name	OJ990827_13.0204.C25.o2.tw	Method	TBLASTX:Wheat
Start	903	End	1124
GI	none	Score	190
Exons	903..1124, 909..998		
Seq. No.	21484	Seq. ID	OJ990827_13.0204.C25
Gene No.	44898	Strand	+
Start	2558	End	5528
Name	OJ990827_13.0204.C25.o2.gs	Method	GENSCAN
Start	2558	End	5390
GI	none	Score	.75
Exons	2558..2743, 3003..3095, 3280..3483, 3625..3780, 4020..4097, 4218..4349, 4578..4658, 4823..4894, 4978..5067, 5246..5390		
Seq. No.	21484	Seq. ID	OJ990827_13.0204.C25
Gene No.	44898	Strand	+
Start	2558	End	5528
Name	OJ990827_13.0204.C25.o3.gp	Method	AAT/GAP
Start	2890	End	5081
GI	7253_1.R1084	Score	1636
Exons	2890..3095, 3196..3292, 3386..3483, 3625..3780, 4020..4097, 4218..4349, 4578..4658, 4823..4894, 4978..5081		
GI Descrip.	'4581156/gb AAD24640.1 AC006919_18 0.0e+00 (AC006919) putative pyruvate kinase [Arabidopsis thaliana]'		
Seq. No.	21484	Seq. ID	OJ990827_13.0204.C25
Gene No.	44898	Strand	+
Start	2558	End	5528
Name	OJ990827_13.0204.C25.o2.gp	Method	AAT/GAP
Start	2956	End	3064
GI	LIB3475-010-P1-K1-G9	Score	161
Exons	2956..3064		
GI Descrip.	'5815235/gb AAD52609.1 AF173640_1 2.0e-36 (AF173640) splicing factor SR1 [Arabidopsis thaliana]'		

Seq. No.	21484	Seq. ID	OJ990827_13.0204.C25
Gene No.	44898	Strand	+
Start	2558	End	5528
Name	OJ990827_13.0204.C25.o2.tm	Method	TBLASTX:Maize
Start	2983	End	3488
GI	none	Score	39
Exons	2983..3006, 3001..3051, 3021..3059, 3042..3107, 3051..3092, 3181..3291, 3195..3290, 3379..3486, 3384..3488		

Seq. No.	21484	Seq. ID	OJ990827_13.0204.C25
Gene No.	44898	Strand	+
Start	2558	End	5528
Name	OJ990827_13.0204.C25.o4.gp	Method	AAT/GAP
Start	2983	End	5077
GI	7253_1.R1084	Score	1474
Exons	2983..3095, 3196..3292, 3386..3483, 3625..3780, 4020..4097, 4218..4349, 4578..4658, 4823..4894, 4978..5077		
GI Descrip.	'4581156/gb AAD24640.1 AC006919_18 0.0e+00 (AC006919) putative pyruvate kinase [Arabidopsis thaliana]'		

Seq. No.	21484	Seq. ID	OJ990827_13.0204.C25
Gene No.	44898	Strand	+
Start	2558	End	5528
Name	OJ990827_13.0204.C25.o2.tc	Method	TBLASTX:Cress
Start	3025	End	3786
GI	none	Score	36
Exons	3025..3051, 3050..3091, 3051..3092, 3181..3291, 3195..3290, 3199..3291, 3379..3486, 3384..3488, 3618..3779, 3625..3786		

Seq. No.	21484	Seq. ID	OJ990827_13.0204.C25
Gene No.	44898	Strand	+
Start	2558	End	5528
Name	OJ990827_13.0204.C25.o3.ts	Method	TBLASTX:Soybean
Start	3042	End	4631
GI	none	Score	75
Exons	3042..3092, 3050..3094, 3051..3095, 3181..3291, 3195..3290, 3199..3291, 3363..3488, 3379..3486, 3618..3773, 3625..3786, 4017..4100, 4017..4097, 4019..4099, 4182..4352, 4215..4352, 4232..4354, 4238..4357, 4575..4631		

Seq. No.	21484	Seq. ID	OJ990827_13.0204.C25
Gene No.	44898	Strand	+
Start	2558	End	5528
Name	OJ990827_13.0204.C25.o5.gp	Method	AAT/GAP
Start	3196	End	5315
GI	7253_1.R1084	Score	1392
Exons	3196..3292, 3386..3483, 3625..3780, 4020..4097, 4218..4349, 4578..4658, 4823..4894, 4978..5067, 5246..5315		
GI Descrip.	'4581156/gb AAD24640.1 AC006919_18 0.0e+00 (AC006919) putative pyruvate kinase [Arabidopsis thaliana]'		

Seq. No.	21484	Seq. ID	OJ990827_13.0204.C25
Gene No.	44898	Strand	+
Start	2558	End	5528
Name	OJ990827_13.0204.C25.o2.np	Method	AAT/NAP
Start	3379	End	5528
GI	4581156	Score	1025

Exons 3379..3483, 3625..3780, 4020..4085, 4218..4349, 4578..4658,  
4823..4894, 4978..5067, 5264..5390, 5466..5528  
GI Descrip. (AC006919) putative pyruvate kinase [Arabidopsis thaliana]

Seq. No. 21484 Seq. ID OJ990827\_13.0204.C25  
Gene No. 44898 Strand +  
Start 2558 End 5528  
Name OJ990827\_13.0204.C25.o3.tm Method TBLASTX:Maize  
Start 3611 End 5527  
GI none Score 125  
Exons 3611..3781, 3615..3770, 3618..3791, 3625..3786, 4001..4099,  
4017..4100, 4182..4352, 4215..4349, 4217..4354, 4577..4654,  
4578..4670, 4579..4662, 4820..4894, 4822..4899, 4822..4893,  
4958..5068, 4972..5100, 4976..5068, 4977..5069, 5219..5389,  
5245..5388, 5258..5392, 5458..5526, 5465..5527

Seq. No. 21484 Seq. ID OJ990827\_13.0204.C25  
Gene No. 44898 Strand +  
Start 2558 End 5528  
Name OJ990827\_13.0204.C25.o3.tc Method TBLASTX:Cress  
Start 4001 End 5527  
GI none Score 135  
Exons 4001..4099, 4017..4103, 4182..4352, 4215..4349, 4229..4354,  
4575..4658, 4577..4654, 4792..4902, 4835..4903, 4975..5070,  
4977..5069, 5239..5352, 5243..5377, 5245..5379, 5258..5392,  
5458..5526, 5465..5527

Seq. No. 21484 Seq. ID OJ990827\_13.0204.C25  
Gene No. 44898 Strand +  
Start 2558 End 5528  
Name OJ990827\_13.0204.C25.o1.tw Method TBLASTX:Wheat  
Start 4263 End 5286  
GI none Score 144  
Exons 4263..4349, 4265..4357, 4266..4352, 4575..4658, 4577..4678,  
4578..4670, 4819..4893, 4820..4894, 4820..4894, 4972..5100,  
4977..5069, 5239..5286, 5245..5286

Seq. No. 21484 Seq. ID OJ990827\_13.0204.C25  
Gene No. 44898 Strand +  
Start 2558 End 5528  
Name OJ990827\_13.0204.C25.o4.ts Method TBLASTX:Soybean  
Start 4810 End 5527  
GI none Score 60  
Exons 4810..4899, 4820..4903, 4820..4894, 4821..4898, 4822..4902,  
4972..5070, 4977..5069, 5238..5336, 5239..5352, 5245..5379,  
5258..5392, 5458..5526, 5465..5527

Seq. No. 21485 Seq. ID OJ990827\_13.0204.C26  
Gene No. 44899 Strand +  
Start 1 End 1301  
Name OJ990827\_13.0204.C26.o1.np Method AAT/NAP  
Start 1 End 1105  
GI 4581156 Score 474  
Exons 1..24, 122..189, 273..372, 505..564, 956..1105  
GI Descrip. (AC006919) putative pyruvate kinase [Arabidopsis thaliana]

Seq. No. 21485 Seq. ID OJ990827\_13.0204.C26

Gene No.	44899	Strand	+
Start	1	End	1301
Name	OJ990827_13.0204.C26.o1.gs	Method	GENSCAN
Start	122	End	1108
GI	none	Score	.92
Exons	122..189, 273..372, 505..564, 956..1108		

Seq. No.	21485	Seq. ID	OJ990827_13.0204.C26
Gene No.	44899	Strand	+
Start	1	End	1301
Name	OJ990827_13.0204.C26.o1.gp	Method	AAT/GAP
Start	349	End	1301
GI	7253_4.R1084	Score	771
Exons	349..372, 505..564, 956..1301		
GI Descrip.	'4581156/gb AAD24640.1 AC006919_18 1.0e-33 (AC006919) putative pyruvate kinase [Arabidopsis thaliana]'		

Seq. No.	21485	Seq. ID	OJ990827_13.0204.C26
Gene No.	44900	Strand	-
Start	2137	End	5524
Name	OJ990827_13.0204.C26.o1.tc	Method	TBLASTX:Cress
Start	121	End	1131
GI	none	Score	107
Exons	121..189, 122..190, 145..195, 262..369, 270..353, 270..371, 271..378, 486..554, 502..618, 955..1131, 956..1108		

Seq. No.	21485	Seq. ID	OJ990827_13.0204.C26
Gene No.	44900	Strand	-
Start	2137	End	5524
Name	OJ990827_13.0204.C26.o1.tw	Method	TBLASTX:Wheat
Start	121	End	1111
GI	none	Score	107
Exons	121..189, 122..190, 270..359, 270..371, 271..378, 271..381, 486..563, 486..554, 499..561, 502..618, 955..1107, 956..1108, 956..1111		

Seq. No.	21485	Seq. ID	OJ990827_13.0204.C26
Gene No.	44900	Strand	-
Start	2137	End	5524
Name	OJ990827_13.0204.C26.o1.tm	Method	TBLASTX:Maize
Start	121	End	1347
GI	none	Score	107
Exons	121..189, 122..190, 270..359, 270..371, 271..378, 486..563, 495..566, 496..564, 502..618, 955..1125, 956..1111, 958..1149, 1170..1208, 1176..1208, 1177..1209, 1211..1252, 1215..1253, 1216..1269, 1291..1344, 1291..1347		

Seq. No.	21485	Seq. ID	OJ990827_13.0204.C26
Gene No.	44900	Strand	-
Start	2137	End	5524
Name	OJ990827_13.0204.C26.o1.ts	Method	TBLASTX:Soybean
Start	121	End	552
GI	none	Score	107
Exons	121..189, 122..190, 270..371, 271..378, 486..551, 502..552		

Seq. No.	21485	Seq. ID	OJ990827_13.0204.C26
Gene No.	44900	Strand	-

Start	2137	End	5524
Name	OJ990827_13.0204.C26.o2.ts	Method	TBLASTX:Soybean
Start	955	End	1125
GI	none	Score	223
Exons	955..1125, 956..1111		
Seq. No.	21485	Seq. ID	OJ990827_13.0204.C26
Gene No.	44900	Strand	-
Start	2137	End	5524
Name	OJ990827_13.0204.C26.o2.gs	Method	GENSCAN
Start	2137	End	5524
GI	none	Score	.64
Exons	2137..2255, 2354..2624, 3483..3629, 4136..4344, 5320..5524		
Seq. No.	21485	Seq. ID	OJ990827_13.0204.C26
Gene No.	44900	Strand	-
Start	2137	End	5524
Name	OJ990827_13.0204.C26.o2.tm	Method	TBLASTX:Maize
Start	2625	End	3002
GI	none	Score	77
Exons	2625..2681, 2625..2690, 2629..2682, 2630..2695, 2793..3002, 2798..3001		
Seq. No.	21485	Seq. ID	OJ990827_13.0204.C26
Gene No.	44900	Strand	-
Start	2137	End	5524
Name	OJ990827_13.0204.C26.o2.tw	Method	TBLASTX:Wheat
Start	3970	End	4730
GI	none	Score	65
Exons	3970..4038, 3972..4040, 4128..4244, 4133..4246, 4133..4324, 4304..4345, 4304..4345, 4674..4730, 4690..4719		
Seq. No.	21486	Seq. ID	OJ990827_13.0204.C27
Gene No.	44901	Strand	+
Start	413	End	758
Name	OJ990827_13.0204.C27.o1.gp	Method	AAT/GAP
Start	413	End	758
GI	none	Score	660
Exons	413..758		
Seq. No.	21486	Seq. ID	OJ990827_13.0204.C27
Gene No.	44902	Strand	-
Start	318	End	3664
Name	OJ990827_13.0204.C27.o1.gs	Method	GENSCAN
Start	318	End	3659
GI	none	Score	.72
Exons	318..730, 1699..1903, 2252..2404, 2483..2641, 2710..2894, 3274..3363, 3480..3659		
Seq. No.	21486	Seq. ID	OJ990827_13.0204.C27
Gene No.	44902	Strand	-
Start	318	End	3664
Name	OJ990827_13.0204.C27.o1.tm	Method	TBLASTX:Maize
Start	1576	End	3661
GI	none	Score	119
Exons	1576..1818, 1577..1903, 1578..1904, 2249..2404, 2250..2405, 2250..2405, 2251..2406, 2450..2608, 2478..2606, 2482..2625,		



2482..2637, 2710..2895, 2710..2883, 2751..2897, 3274..3360,  
3275..3364, 3276..3365, 3471..3653, 3472..3660, 3482..3661

Seq. No.	21486	Seq. ID	OJ990827_13.0204.C27
Gene No.	44902	Strand	-
Start	318	End	3664
Name	OJ990827_13.0204.C27.o1.ts	Method	TBLASTX:Soybean
Start	1586	End	2345
GI	none	Score	111
Exons	1586..1903, 1590..1724, 1785..1904, 1985..2029, 2249..2344, 2250..2345		

Seq. No.	21486	Seq. ID	OJ990827_13.0204.C27
Gene No.	44902	Strand	-
Start	318	End	3664
Name	OJ990827_13.0204.C27.o1.np	Method	AAT/NAP
Start	1652	End	2907
GI	3023751	Score	226
Exons	1652..1903, 2252..2404, 2483..2605, 2719..2907		
GI Descrip.	70 KD PEPTIDYLPROLYL ISOMERASE (PEPTIDYLPROLYL CIS-TRANS ISOMERASE) (CYCLOPHILIN) (PPIASE) gi 1076772 pir  S55383 peptidylprolyl isomerase (EC 5.2.1.8) - wheat gi 854626 emb CAA60505  (X86903) peptidylprolyl isomerase [Triticum aestivum]		

Seq. No.	21486	Seq. ID	OJ990827_13.0204.C27
Gene No.	44902	Strand	-
Start	318	End	3664
Name	OJ990827_13.0204.C27.o2.ts	Method	TBLASTX:Soybean
Start	2360	End	2893
GI	none	Score	67
Exons	2360..2401, 2360..2404, 2495..2608, 2496..2609, 2496..2609, 2552..2623, 2704..2886, 2707..2883, 2759..2893		

Seq. No.	21486	Seq. ID	OJ990827_13.0204.C27
Gene No.	44902	Strand	-
Start	318	End	3664
Name	OJ990827_13.0204.C27.o1.tc	Method	TBLASTX:Cress
Start	3275	End	3652
GI	none	Score	89
Exons	3275..3364, 3276..3359, 3472..3651, 3482..3652		

Seq. No.	21486	Seq. ID	OJ990827_13.0204.C27
Gene No.	44902	Strand	-
Start	318	End	3664
Name	OJ990827_13.0204.C27.o1.tw	Method	TBLASTX:Wheat
Start	3503	End	3664
GI	none	Score	166
Exons	3503..3664, 3503..3646, 3508..3660		

Seq. No.	21487	Seq. ID	OJ990827_13.0204.C28
Gene No.	44903	Strand	-
Start	2114	End	6300
Name	OJ990827_13.0204.C28.o1.gp	Method	AAT/GAP
Start	1674	End	3315
GI	53984_1.R1084	Score	2358
Exons	1674..2492, 2785..2943, 3045..3315		

GI Descrip. '6006895/gb|AAF00670.1|AC008153\_22 8.0e-56 (AC008153)  
hypothetical protein [Arabidopsis thaliana]'

Seq. No. 21487 Seq. ID OJ990827\_13.0204.C28  
Gene No. 44903 Strand -  
Start 2114 End 6300  
Name OJ990827\_13.0204.C28.o1.np Method AAT/NAP  
Start 2104 End 6300  
GI 6862912 Score 1003  
Exons 2104..2492, 2785..2943, 3045..3436, 4745..4985, 6065..6300  
GI Descrip. (AC018907) unknown protein [Arabidopsis thaliana]

Seq. No. 21487 Seq. ID OJ990827\_13.0204.C28  
Gene No. 44903 Strand -  
Start 2114 End 6300  
Name OJ990827\_13.0204.C28.o2.gs Method GENSCAN  
Start 2114 End 5081  
GI none Score .57  
Exons 2114..2510, 2785..2943, 3045..3334, 3347..3467, 4750..5081

Seq. No. 21487 Seq. ID OJ990827\_13.0204.C28  
Gene No. 44903 Strand -  
Start 2114 End 6300  
Name OJ990827\_13.0204.C28.o1.ts Method TBLASTX:Soybean  
Start 2171 End 2476  
GI none Score 110  
Exons 2171..2287, 2178..2252, 2285..2362, 2438..2476

Seq. No. 21487 Seq. ID OJ990827\_13.0204.C28  
Gene No. 44903 Strand -  
Start 2114 End 6300  
Name OJ990827\_13.0204.C28.o1.tc Method TBLASTX:Cress  
Start 2192 End 3281  
GI none Score 76  
Exons 2192..2299, 2214..2270, 2285..2374, 2438..2533, 2445..2495,  
2784..2945, 2785..2949, 3047..3115, 3048..3116, 3092..3280,  
3180..3281, 3213..3281

Seq. No. 21487 Seq. ID OJ990827\_13.0204.C28  
Gene No. 44903 Strand -  
Start 2114 End 6300  
Name OJ990827\_13.0204.C28.o1.tm Method TBLASTX:Maize  
Start 2246 End 3204  
GI none Score 211  
Exons 2246..2533, 2247..2495, 2784..2942, 2787..2939, 3031..3201,  
3032..3202, 3044..3202, 3048..3203, 3049..3204

Seq. No. 21487 Seq. ID OJ990827\_13.0204.C28  
Gene No. 44903 Strand -  
Start 2114 End 6300  
Name OJ990827\_13.0204.C28.o2.tm Method TBLASTX:Maize  
Start 4747 End 4919  
GI none Score 120  
Exons 4747..4866, 4761..4877, 4875..4919

Seq. No. 21487 Seq. ID OJ990827\_13.0204.C28  
Gene No. 44903 Strand -

Start 2114  
 Name OJ990827\_13.0204.C28.o2.ts  
 Start 4747  
 GI none  
 Exons 4747..4860, 4758..4892

End 6300  
 Method TBLASTX:Soybean  
 End 4892  
 Score 92

Seq. No. 21488  
 Gene No. 44904  
 Start 271  
 Name OJ990827\_13.0204.C32.o1.gs  
 Start 271  
 GI none  
 Exons 271..449

Seq. ID OJ990827\_13.0204.C32  
 Strand -  
 End 449  
 Method GENSCAN  
 End 449  
 Score .87

Seq. No. 21489  
 Gene No. 44905  
 Start 1190  
 Name OJ990827\_13.0204.C33.o1.gs  
 Start 1190  
 GI none  
 Exons 1190..1224, 2312..2495, 2731..2748, 2821..2862

Seq. ID OJ990827\_13.0204.C33  
 Strand +  
 End 2862  
 Method GENSCAN  
 End 2862  
 Score .46

Seq. No. 21490  
 Gene No. 44906  
 Start 975  
 Name OJ990827\_13.0204.C34.o1.gs  
 Start 975  
 GI none  
 Exons 975..1103, 1274..1470

Seq. ID OJ990827\_13.0204.C34  
 Strand +  
 End 1470  
 Method GENSCAN  
 End 1470  
 Score .94

Seq. No. 21490  
 Gene No. 44907  
 Start 3074  
 Name OJ990827\_13.0204.C34.o1.gp  
 Start 3074  
 GI 871\_1.R1084  
 Exons 3074..3399

Seq. ID OJ990827\_13.0204.C34  
 Strand +  
 End 3399  
 Method AAT/GAP  
 End 3399  
 Score 633

GI Descrip. '3201971 2.0e-22 (AF068333) hypothetical secretory protein SH27A precursor [Oryza sativa]'

Seq. No. 21490  
 Gene No. 44907  
 Start 3074  
 Name OJ990827\_13.0204.C34.o1.np  
 Start 3220  
 GI 3201971  
 Exons 3220..3399

Seq. ID OJ990827\_13.0204.C34  
 Strand +  
 End 3399  
 Method AAT/NAP  
 End 3399  
 Score 275

GI Descrip. (AF068333) hypothetical secretory protein SH27A precursor [Oryza sativa]

Seq. No. 21490  
 Gene No. 44908  
 Start 3144  
 Name OJ990827\_13.0204.C34.o2.gs  
 Start 3144  
 GI none  
 Exons 3144..3357

Seq. ID OJ990827\_13.0204.C34  
 Strand -  
 End 3357  
 Method GENSCAN  
 End 3357  
 Score .58

Seq. No.	21491	Seq. ID	OJ990817_16.0223.C1
Gene No.	44909	Strand	-
Start	1	End	1830
Name	OJ990817_16.0223.C1.o1.np	Method	AAT/NAP
Start	1	End	1377
GI	5441880	Score	1060
Exons	1..1377		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	21491	Seq. ID	OJ990817_16.0223.C1
Gene No.	44909	Strand	-
Start	1	End	1830
Name	OJ990817_16.0223.C1.o1.gs	Method	GENSCAN
Start	773	End	1830
GI	none	Score	.92
Exons	773..1830		

Seq. No.	21492	Seq. ID	OJ990817_16.0223.C3
Gene No.	44910	Strand	+
Start	330	End	440
Name	OJ990817_16.0223.C3.o1.gs	Method	GENSCAN
Start	330	End	440
GI	none	Score	.58
Exons	330..440		

Seq. No.	21492	Seq. ID	OJ990817_16.0223.C3
Gene No.	44911	Strand	+
Start	6873	End	8981
Name	OJ990817_16.0223.C3.o2.np	Method	AAT/NAP
Start	6458	End	8981
GI	2651297	Score	433
Exons	6458..6534, 7091..7417, 8678..8981		
GI Descrip.	(AC002336) putative expansin [Arabidopsis thaliana]		

Seq. No.	21492	Seq. ID	OJ990817_16.0223.C3
Gene No.	44911	Strand	+
Start	6873	End	8981
Name	OJ990817_16.0223.C3.o1.gp	Method	AAT/GAP
Start	6841	End	7357
GI	uC-osflm202102h06b1	Score	908
Exons	6841..7023, 7051..7357		
GI Descrip.	'1041704 2.0e-19 (U30478) expansin At-EXP5 [Arabidopsis thaliana]'		

Seq. No.	21492	Seq. ID	OJ990817_16.0223.C3
Gene No.	44911	Strand	+
Start	6873	End	8981
Name	OJ990817_16.0223.C3.o4.gs	Method	GENSCAN
Start	6873	End	8019
GI	none	Score	.45
Exons	6873..7417, 7980..8019		

Seq. No.	21492	Seq. ID	OJ990817_16.0223.C3
Gene No.	44912	Strand	+

Start	11187	End	16836
Name	OJ990817_16.0223.C3.o6.gs	Method	GENSCAN
Start	11187	End	16836
GI	none	Score	.49
Exons	11187..11208, 11846..11984, 13776..13978, 14005..14088, 15185..15347, 15727..15862, 16587..16691, 16780..16836		

Seq. No.	21492	Seq. ID	OJ990817_16.0223.C3
Gene No.	44913	Strand	+
Start	18235	End	18365
Name	OJ990817_16.0223.C3.o3.gp	Method	AAT/GAP
Start	18235	End	18365
GI	none	Score	262
Exons	18235..18365		

Seq. No.	21492	Seq. ID	OJ990817_16.0223.C3
Gene No.	44914	Strand	-
Start	733	End	2742
Name	OJ990817_16.0223.C3.o2.gs	Method	GENSCAN
Start	733	End	1053
GI	none	Score	.99
Exons	733..827, 948..1053		

Seq. No.	21492	Seq. ID	OJ990817_16.0223.C3
Gene No.	44914	Strand	-
Start	733	End	2742
Name	OJ990817_16.0223.C3.o1.np	Method	AAT/NAP
Start	899	End	2742
GI	5091499	Score	63
Exons	899..1097, 2663..2742		
GI Descrip.	(AB023482) Similar to Human mRNA for alpha 1 (III) collagen fragment (aa 892-1023).(X01655) [Oryza sativa]		

Seq. No.	21492	Seq. ID	OJ990817_16.0223.C3
Gene No.	44915	Strand	-
Start	8636	End	8896
Name	OJ990817_16.0223.C3.o5.gs	Method	GENSCAN
Start	8636	End	8896
GI	none	Score	.96
Exons	8636..8845, 8870..8896		

Seq. No.	21492	Seq. ID	OJ990817_16.0223.C3
Gene No.	44916	Strand	-
Start	8912	End	9198
Name	OJ990817_16.0223.C3.o1.tm	Method	TBLASTX:Maize
Start	7056	End	9007
GI	none	Score	129
Exons	7056..7157, 7064..7156, 7149..7193, 7178..7225, 7179..7265, 7284..7316, 7338..7418, 7338..7415, 8675..8980, 8676..8981, 8960..9007		

Seq. No.	21492	Seq. ID	OJ990817_16.0223.C3
Gene No.	44916	Strand	-
Start	8912	End	9198
Name	OJ990817_16.0223.C3.o1.tc	Method	TBLASTX:Cress
Start	7091	End	8969
GI	none	Score	86

Exons 7091..7156, 7092..7157, 7167..7262, 7281..7316, 7338..7418, 8676..8969

Seq. No.	21492	Seq. ID	OJ990817_16.0223.C3
Gene No.	44916	Strand	-
Start	8912	End	9198
Name	OJ990817_16.0223.C3.o1.ts	Method	TBLASTX:Soybean
Start	7338	End	8969
GI	none	Score	90
Exons	7338..7418, 8676..8804, 8814..8969		

Seq. No.	21492	Seq. ID	OJ990817_16.0223.C3
Gene No.	44916	Strand	-
Start	8912	End	9198
Name	OJ990817_16.0223.C3.o2.gp	Method	AAT/GAP
Start	8912	End	9198
GI	none	Score	562
Exons	8912..9198		

Seq. No.	21493	Seq. ID	OJ990817_16.0223.C4
Gene No.	44917	Strand	+
Start	314	End	2472
Name	OJ990817_16.0223.C4.o1.np	Method	AAT/NAP
Start	314	End	2472
GI	2618701	Score	82
Exons	314..422, 524..713, 870..1118, 2454..2472		
GI Descrip.	(AC002510) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	21493	Seq. ID	OJ990817_16.0223.C4
Gene No.	44917	Strand	+
Start	314	End	2472
Name	OJ990817_16.0223.C4.o1.gs	Method	GENSCAN
Start	400	End	645
GI	none	Score	.59
Exons	400..645		

Seq. No.	21493	Seq. ID	OJ990817_16.0223.C4
Gene No.	44918	Strand	-
Start	731	End	2267
Name	OJ990817_16.0223.C4.o2.gs	Method	GENSCAN
Start	731	End	2267
GI	none	Score	.54
Exons	731..957, 2054..2267		

Seq. No.	21494	Seq. ID	OJ990817_16.0223.C5
Gene No.	44919	Strand	+
Start	808	End	1186
Name	OJ990817_16.0223.C5.o1.gs	Method	GENSCAN
Start	808	End	1186
GI	none	Score	.79
Exons	808..891, 984..1041, 1077..1186		

Seq. No.	21495	Seq. ID	OJ990817_16.0223.C6
Gene No.	44920	Strand	-
Start	13	End	344
Name	OJ990817_16.0223.C6.o1.gs	Method	GENSCAN
Start	13	End	344

GI	none	Score	.47
Exons	13..116, 275..344		
Seq. No.	21496	Seq. ID	OJ990817_16.0223.C7
Gene No.	44921	Strand	-
Start	84	End	531
Name	OJ990817_16.0223.C7.o1.gp	Method	AAT/GAP
Start	84	End	531
GI	25552 1.R1084	Score	.874
Exons	84..531		
GI Descrip.	'2104691 4.0e-19 (U92794) alpha glucosidase II, beta subunit [Mus musculus]'		
Seq. No.	21497	Seq. ID	OJ990817_16.0223.C9
Gene No.	44922	Strand	-
Start	165	End	338
Name	OJ990817_16.0223.C9.o1.gs	Method	GENSCAN
Start	165	End	338
GI	none	Score	.66
Exons	165..338		
Seq. No.	21498	Seq. ID	OJ990817_16.0223.C12
Gene No.	44923	Strand	+
Start	1	End	886
Name	OJ990817_16.0223.C12.o1.np	Method	AAT/NAP
Start	1	End	886
GI	2529677	Score	.97
Exons	1..48, 583..654, 739..886		
GI Descrip.	(AC002535) putative kinesin heavy chain [Arabidopsis thaliana]		
Seq. No.	21498	Seq. ID	OJ990817_16.0223.C12
Gene No.	44923	Strand	+
Start	1	End	886
Name	OJ990817_16.0223.C12.o1.gs	Method	GENSCAN
Start	349	End	483
GI	none	Score	.84
Exons	349..483		
Seq. No.	21499	Seq. ID	OJ990817_16.0223.C18
Gene No.	44925	Strand	-
Start	248	End	379
Name	OJ990817_16.0223.C18.o1.gs	Method	GENSCAN
Start	248	End	379
GI	none	Score	.7
Exons	248..379		
Seq. No.	21500	Seq. ID	OJ990817_16.0223.C22
Gene No.	44926	Strand	-
Start	27	End	235
Name	OJ990817_16.0223.C22.o1.gs	Method	GENSCAN
Start	27	End	235
GI	none	Score	.65
Exons	27..235		
Seq. No.	21501	Seq. ID	OJ990817_16.0223.C23
Gene No.	44927	Strand	-
Start	473	End	3098

Name	OJ990817_16.0223.C23.o1.gs	Method	GENSCAN
Start	473	End	3098
GI	none	Score	.56
Exons	473..491, 1206..1378, 2747..3000, 3035..3098		

Seq. No.	21502	Seq. ID	OJ990817_16.0223.C24
Gene No.	44928	Strand	-
Start	105	End	598
Name	OJ990817_16.0223.C24.o1.gs	Method	GENSCAN
Start	105	End	598
GI	none	Score	.61
Exons	105..170, 551..598		

Seq. No.	21503	Seq. ID	OJ990817_16.0223.C26
Gene No.	44929	Strand	-
Start	450	End	540
Name	OJ990817_16.0223.C26.o1.gs	Method	GENSCAN
Start	450	End	540
GI	none	Score	.89
Exons	450..540		

Seq. No.	21504	Seq. ID	OJ990817_16.0223.C28
Gene No.	44930	Strand	+
Start	7729	End	11519
Name	OJ990817_16.0223.C28.o1.np	Method	AAT/NAP
Start	7729	End	11519
GI	6630696	Score	6544
Exons	7729..11519		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	21504	Seq. ID	OJ990817_16.0223.C28
Gene No.	44930	Strand	+
Start	7729	End	11519
Name	OJ990817_16.0223.C28.o2.gs	Method	GENSCAN
Start	7729	End	11313
GI	none	Score	.87
Exons	7729..11313		

Seq. No.	21504	Seq. ID	OJ990817_16.0223.C28
Gene No.	44930	Strand	+
Start	7729	End	11519
Name	OJ990817_16.0223.C28.o2.gp	Method	AAT/GAP
Start	7771	End	8661
GI	101595_1.R1084	Score	1447
Exons	7771..8471, 8587..8661		
GI Descrip.	'3047066 3.0e-15 (AF058825) contains similarity to retrovirus-related POL polyproteins [Arabidopsis thaliana]'		

Seq. No.	21504	Seq. ID	OJ990817_16.0223.C28
Gene No.	44931	Strand	+
Start	12228	End	13240
Name	OJ990817_16.0223.C28.o3.gs	Method	GENSCAN
Start	12228	End	13240
GI	none	Score	.83
Exons	12228..12300, 12336..12445, 12573..12716, 12813..12882,		



13128..13240

Seq. No.	21504	Seq. ID	OJ990817_16.0223.C28
Gene No.	44932	Strand	+
Start	16304	End	16697
Name	OJ990817_16.0223.C28.o3.gp	Method	AAT/GAP
Start	16210	End	16697
GI	16165_1.R1084	Score	941
Exons	16210..16697		
GI Descrip.	'2118425/pir  S61830 2.0e-20 subtilisin/chymotrypsin inhibitor - maize >gi_475253_emb_CAA55588_ (X78988) proteinase inhibitor [Zea mays] >gi_475922_emb_CAA49593_ (X69972) proteinase inhibitor [Zea mays] >gi_559538_emb_CAA57677_ (X82187) substilin /chymotrypsin-like inhibitor [Zea mays]'		

Seq. No.	21504	Seq. ID	OJ990817_16.0223.C28
Gene No.	44932	Strand	+
Start	16304	End	16697
Name	OJ990817_16.0223.C28.o4.np	Method	AAT/NAP
Start	16274	End	16507
GI	6900314	Score	245
Exons	16274..16507		
GI Descrip.	(AJ250663) putative proteinase inhibitor [Hordeum vulgare]		

Seq. No.	21504	Seq. ID	OJ990817_16.0223.C28
Gene No.	44932	Strand	+
Start	16304	End	16697
Name	OJ990817_16.0223.C28.o4.gs	Method	GENSCAN
Start	16304	End	16510
GI	none	Score	.89
Exons	16304..16510		

Seq. No.	21504	Seq. ID	OJ990817_16.0223.C28
Gene No.	44933	Strand	+
Start	20977	End	23206
Name	OJ990817_16.0223.C28.o4.gp	Method	AAT/GAP
Start	20874	End	21292
GI	16165_2.R1084	Score	713
Exons	20874..21292		
GI Descrip.	'2118425/pir  S61830 2.0e-14 subtilisin/chymotrypsin inhibitor - maize >gi_475253_emb_CAA55588_ (X78988) proteinase inhibitor [Zea mays] >gi_475922_emb_CAA49593_ (X69972) proteinase inhibitor [Zea mays] >gi_559538_emb_CAA57677_ (X82187) substilin /chymotrypsin-like inhibitor [Zea mays]'		

Seq. No.	21504	Seq. ID	OJ990817_16.0223.C28
Gene No.	44933	Strand	+
Start	20977	End	23206
Name	OJ990817_16.0223.C28.o6.gs	Method	GENSCAN
Start	20977	End	23206
GI	none	Score	.8
Exons	20977..21142, 21680..21762, 22200..22934, 23054..23206		

Seq. No.	21504	Seq. ID	OJ990817_16.0223.C28
Gene No.	44933	Strand	+
Start	20977	End	23206
Name	OJ990817_16.0223.C28.o6.np	Method	AAT/NAP

Start	20988	End	21214
GI	2118425	Score	246
Exons	20988..21214		
GI Descrip.	subtilisin/chymotrypsin inhibitor - maize		
	gi 475253 emb CAA55588  (X78988) proteinase inhibitor [Zea mays]		
	gi 475922 emb CAA49593  (X69972) proteinase inhibitor [Zea mays]		
	gi 559538 emb CAA57677  (X82187) substilin /chymotrypsin-like inhibitor [Zea mays]		

Seq. No.	21504	Seq. ID	OJ990817_16.0223.C28
Gene No.	44934	Strand	+
Start	25609	End	25842
Name	OJ990817_16.0223.C28.o7.np	Method	AAT/NAP
Start	25591	End	25839
GI	6900314	Score	256
Exons	25591..25839		
GI Descrip.	(AJ250663) putative proteinase inhibitor [Hordeum vulgare]		

Seq. No.	21504	Seq. ID	OJ990817_16.0223.C28
Gene No.	44934	Strand	+
Start	25609	End	25842
Name	OJ990817_16.0223.C28.o7.gs	Method	GENSCAN
Start	25609	End	25842
GI	none	Score	.99
Exons	25609..25842		

Seq. No.	21504	Seq. ID	OJ990817_16.0223.C28
Gene No.	44935	Strand	-
Start	364	End	7393
Name	OJ990817_16.0223.C28.o1.gp	Method	AAT/GAP
Start	364	End	1109
GI	none	Score	1356
Exons	364..1109		

Seq. No.	21504	Seq. ID	OJ990817_16.0223.C28
Gene No.	44935	Strand	-
Start	364	End	7393
Name	OJ990817_16.0223.C28.o1.gs	Method	GENSCAN
Start	683	End	7393
GI	none	Score	.75
Exons	683..1189, 1318..2953, 4113..4374, 5211..5440, 6024..6255, 6524..6606, 6886..7101, 7108..7292, 7322..7393		

Seq. No.	21504	Seq. ID	OJ990817_16.0223.C28
Gene No.	44936	Strand	-
Start	14504	End	15809
Name	OJ990817_16.0223.C28.o3.np	Method	AAT/NAP
Start	14504	End	15809
GI	6815099	Score	69
Exons	14504..14617, 15760..15809		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	21504	Seq. ID	OJ990817_16.0223.C28
Gene No.	44937	Strand	-
Start	17506	End	19016
Name	OJ990817_16.0223.C28.o5.np	Method	AAT/NAP
Start	17459	End	18206

GI 6815052 Score 414  
 Exons 17459..17627, 17897..17971, 18053..18206  
 GI Descrip. (AP001080) hypothetical protein [Oryza sativa]

Seq. No. 21504 Seq. ID OJ990817\_16.0223.C28  
 Gene No. 44937 Strand -  
 Start 17506 End 19016  
 Name OJ990817\_16.0223.C28.o5.gs Method GENSCAN  
 Start 17506 End 19016  
 GI none Score .6  
 Exons 17506..17627, 18053..18236, 18344..18512, 18563..18741,  
 18951..19016

Seq. No. 21504 Seq. ID OJ990817\_16.0223.C28  
 Gene No. 44938 Strand -  
 Start 26894 End 31880  
 Name OJ990817\_16.0223.C28.o8.tm Method TBLASTX:Maize  
 Start 4075 End 4268  
 GI none Score 85  
 Exons 4075..4245, 4116..4262, 4118..4267, 4125..4268

Seq. No. 21504 Seq. ID OJ990817\_16.0223.C28  
 Gene No. 44938 Strand -  
 Start 26894 End 31880  
 Name OJ990817\_16.0223.C28.o4.tw Method TBLASTX:Wheat  
 Start 7623 End 8020  
 GI none Score 128  
 Exons 7623..7721, 7624..7758, 7735..8019, 7809..8000, 7838..8020

Seq. No. 21504 Seq. ID OJ990817\_16.0223.C28  
 Gene No. 44938 Strand -  
 Start 26894 End 31880  
 Name OJ990817\_16.0223.C28.o4.tm Method TBLASTX:Maize  
 Start 7771 End 8079  
 GI none Score 318  
 Exons 7771..8079, 7818..8000, 7883..8014, 7885..8076

Seq. No. 21504 Seq. ID OJ990817\_16.0223.C28  
 Gene No. 44938 Strand -  
 Start 26894 End 31880  
 Name OJ990817\_16.0223.C28.o1.tm Method TBLASTX:Maize  
 Start 8602 End 8946  
 GI none Score 381  
 Exons 8602..8874, 8603..8875, 8604..8876, 8604..8876, 8905..8946

Seq. No. 21504 Seq. ID OJ990817\_16.0223.C28  
 Gene No. 44938 Strand -  
 Start 26894 End 31880  
 Name OJ990817\_16.0223.C28.o7.ts Method TBLASTX:Soybean  
 Start 8920 End 9300  
 GI none Score 87  
 Exons 8920..9069, 9052..9300

Seq. No. 21504 Seq. ID OJ990817\_16.0223.C28  
 Gene No. 44938 Strand -  
 Start 26894 End 31880  
 Name OJ990817\_16.0223.C28.o6.tm Method TBLASTX:Maize

Start 9058  
GI none  
Exons 9058..9522, 9297..9515

End 9522  
Score 313

Seq. No. 21504  
Gene No. 44938  
Start 26894  
Name OJ990817\_16.0223.C28.o5.tw  
Start 9165  
GI none  
Exons 9165..9365, 9166..9363, 9168..9365

Seq. ID OJ990817\_16.0223.C28  
Strand -  
End 31880  
Method TBLASTX:Wheat  
End 9365  
Score 278

Seq. No. 21504  
Gene No. 44938  
Start 26894  
Name OJ990817\_16.0223.C28.o2.ts  
Start 9310  
GI none  
Exons 9310..9531, 9312..9527, 9535..9708

Seq. ID OJ990817\_16.0223.C28  
Strand -  
End 31880  
Method TBLASTX:Soybean  
End 9708  
Score 207

Seq. No. 21504  
Gene No. 44938  
Start 26894  
Name OJ990817\_16.0223.C28.o1.tw  
Start 9366  
GI none  
Exons 9366..9824, 9366..9863, 9373..10113, 9563..9988, 9924..10109, 9931..10113

Seq. ID OJ990817\_16.0223.C28  
Strand -  
End 31880  
Method TBLASTX:Wheat  
End 10113  
Score 290

Seq. No. 21504  
Gene No. 44938  
Start 26894  
Name OJ990817\_16.0223.C28.o1.ts  
Start 10033  
GI 5509260  
Exons 10033..10497, 10128..10289  
GI Descrip. -

Seq. ID OJ990817\_16.0223.C28  
Strand -  
End 31880  
Method TBLASTX:Soybean  
End 10497  
Score 388

Seq. No. 21504  
Gene No. 44938  
Start 26894  
Name OJ990817\_16.0223.C28.o2.tc  
Start 10126  
GI none  
Exons 10126..10386, 10128..10298

Seq. ID OJ990817\_16.0223.C28  
Strand -  
End 31880  
Method TBLASTX:Cress  
End 10386  
Score 291

Seq. No. 21504  
Gene No. 44938  
Start 26894  
Name OJ990817\_16.0223.C28.o2.tm  
Start 10167  
GI none  
Exons 10167..10298, 10168..10632, 10303..10383, 10419..10529

Seq. ID OJ990817\_16.0223.C28  
Strand -  
End 31880  
Method TBLASTX:Maize  
End 10632  
Score 359

Seq. No. 21504  
Gene No. 44938  
Start 26894

Seq. ID OJ990817\_16.0223.C28  
Strand -  
End 31880

Name	OJ990817_16.0223.C28.o3.tw	Method	TBLASTX:Wheat
Start	10168	End	10656
GI	none	Score	316
Exons	10168..10512, 10185..10349, 10507..10656		
Seq. No.	21504	Seq. ID	OJ990817_16.0223.C28
Gene No.	44938	Strand	-
Start	26894	End	31880
Name	OJ990817_16.0223.C28.o6.ts	Method	TBLASTX:Soybean
Start	10566	End	10893
GI	none	Score	83
Exons	10566..10613, 10567..10656, 10657..10713, 10713..10886, 10714..10893		
Seq. No.	21504	Seq. ID	OJ990817_16.0223.C28
Gene No.	44938	Strand	-
Start	26894	End	31880
Name	OJ990817_16.0223.C28.o3.tm	Method	TBLASTX:Maize
Start	10681	End	11053
GI	none	Score	358
Exons	10681..11052, 10704..11051, 10721..11053		
Seq. No.	21504	Seq. ID	OJ990817_16.0223.C28
Gene No.	44938	Strand	-
Start	26894	End	31880
Name	OJ990817_16.0223.C28.o4.ts	Method	TBLASTX:Soybean
Start	10897	End	11271
GI	none	Score	117
Exons	10897..11028, 10903..11028, 11046..11177, 11047..11271		
Seq. No.	21504	Seq. ID	OJ990817_16.0223.C28
Gene No.	44938	Strand	-
Start	26894	End	31880
Name	OJ990817_16.0223.C28.o2.tw	Method	TBLASTX:Wheat
Start	10909	End	11383
GI	none	Score	105
Exons	10909..10983, 10910..10969, 10914..10982, 10992..11297, 10998..11303, 10999..11301, 11303..11383, 11304..11381		
Seq. No.	21504	Seq. ID	OJ990817_16.0223.C28
Gene No.	44938	Strand	-
Start	26894	End	31880
Name	OJ990817_16.0223.C28.o5.ts	Method	TBLASTX:Soybean
Start	16312	End	25842
GI	none	Score	228
Exons	16312..16380, 16328..16507, 16391..16447, 16447..16506, 21004..21138, 21036..21137, 21139..21213, 21140..21226, 25638..25838, 25639..25842		
Seq. No.	21504	Seq. ID	OJ990817_16.0223.C28
Gene No.	44938	Strand	-
Start	26894	End	31880
Name	OJ990817_16.0223.C28.o7.tm	Method	TBLASTX:Maize
Start	16312	End	25842
GI	none	Score	243
Exons	16312..16506, 16328..16507, 21031..21135, 21033..21134, 21142..21213, 21143..21217, 25623..25838, 25627..25842		

Seq. No.	21504	Seq. ID	OJ990817_16.0223.C28
Gene No.	44938	Strand	-
Start	26894	End	31880
Name	OJ990817_16.0223.C28.o6.tw	Method	TBLASTX:Wheat
Start	16315	End	25842
GI	none	Score	223
Exons	16315..16509, 16328..16507, 21010..21135, 21030..21134, 21143..21232, 21145..21231, 25653..25841, 25654..25842		

Seq. No.	21504	Seq. ID	OJ990817_16.0223.C28
Gene No.	44938	Strand	-
Start	26894	End	31880
Name	OJ990817_16.0223.C28.o8.gs	Method	GENSCAN
Start	26894	End	31871
GI	none	Score	.58
Exons	26894..26927, 28495..28616, 28644..28782, 30244..30307, 30566..30615, 30744..30856, 30953..31099, 31596..31682, 31821..31871		

Seq. No.	21504	Seq. ID	OJ990817_16.0223.C28
Gene No.	44938	Strand	-
Start	26894	End	31880
Name	OJ990817_16.0223.C28.o5.tm	Method	TBLASTX:Maize
Start	30175	End	31877
GI	none	Score	68
Exons	30175..30276, 30196..30297, 30276..30311, 30280..30339, 30560..30628, 30567..30617, 30568..30627, 30742..30798, 30743..30862, 30744..30863, 30939..31034, 30947..31039, 30952..31035, 30954..31040, 31594..31683, 31594..31683, 31818..31871, 31819..31872, 31821..31877		

Seq. No.	21504	Seq. ID	OJ990817_16.0223.C28
Gene No.	44938	Strand	-
Start	26894	End	31880
Name	OJ990817_16.0223.C28.o3.ts	Method	TBLASTX:Soybean
Start	30230	End	31871
GI	none	Score	89
Exons	30230..30310, 30238..30339, 30240..30311, 30555..30617, 30569..30628, 30743..30862, 30744..30860, 30951..31034, 30953..31039, 31600..31683, 31818..31871		

Seq. No.	21504	Seq. ID	OJ990817_16.0223.C28
Gene No.	44938	Strand	-
Start	26894	End	31880
Name	OJ990817_16.0223.C28.o6.gp	Method	AAT/GAP
Start	30233	End	30835
GI	LIB3479-007-Q6-K1-B4	Score	386
Exons	30233..30307, 30566..30615, 30744..30835		
GI Descrip.	'3063661/gb AAC14280.1  5.0e-36 (AF058391) nucleoside diphosphate kinase Ia [Arabidopsis thaliana]'		

Seq. No.	21504	Seq. ID	OJ990817_16.0223.C28
Gene No.	44938	Strand	-
Start	26894	End	31880
Name	OJ990817_16.0223.C28.o1.tc	Method	TBLASTX:Cress
Start	30240	End	31045

GI	none	Score	79
Exons	30240..30311, 30241..30318, 30555..30590, 30565..30591, 30577..30621, 30584..30637, 30585..30653, 30725..30859, 30725..30874, 30738..30896, 30944..31045, 30948..31034		

Seq. No.	21504	Seq. ID	OJ990817_16.0223.C28
Gene No.	44938	Strand	-
Start	26894	End	31880
Name	OJ990817_16.0223.C28.o8.np	Method	AAT/NAP
Start	30243	End	31880
GI	3063661	Score	520
Exons	30243..30307, 30566..30615, 30744..30856, 30953..31033, 31596..31682, 31821..31880		
GI Descrip.	(AF058391) nucleoside diphosphate kinase Ia [Arabidopsis thaliana]		

Seq. No.	21504	Seq. ID	OJ990817_16.0223.C28
Gene No.	44938	Strand	-
Start	26894	End	31880
Name	OJ990817_16.0223.C28.o7.tw	Method	TBLASTX:Wheat
Start	30567	End	31040
GI	none	Score	85
Exons	30567..30635, 30743..30853, 30744..30860, 30947..31039, 30948..31040		

Seq. No.	21504	Seq. ID	OJ990817_16.0223.C28
Gene No.	44938	Strand	-
Start	26894	End	31880
Name	OJ990817_16.0223.C28.o7.gp	Method	AAT/GAP
Start	30807	End	31039
GI	702913	Score	213
Exons	30807..30856, 30953..31039		
GI Descrip.	3063661/gb AAC14280.1  5.0e-36 (AF058391) nucleoside diphosphate kinase Ia [Arabidopsis thaliana]		

Seq. No.	21504	Seq. ID	OJ990817_16.0223.C28
Gene No.	44938	Strand	-
Start	26894	End	31880
Name	OJ990817_16.0223.C28.o8.gp	Method	AAT/GAP
Start	31369	End	31875
GI	702913	Score	211
Exons	31369..31391, 31595..31682, 31821..31875		
GI Descrip.	3063661/gb AAC14280.1  5.0e-36 (AF058391) nucleoside diphosphate kinase Ia [Arabidopsis thaliana]		

Seq. No.	21504	Seq. ID	OJ990817_16.0223.C28
Gene No.	44938	Strand	-
Start	26894	End	31880
Name	OJ990817_16.0223.C28.o9.gp	Method	AAT/GAP
Start	31595	End	31871
GI	702913	Score	214
Exons	31595..31682, 31821..31871		
GI Descrip.	3063661/gb AAC14280.1  5.0e-36 (AF058391) nucleoside diphosphate kinase Ia [Arabidopsis thaliana]		

Seq. No.	21505	Seq. ID	OJ990817_16.0223.C30
Gene No.	44939	Strand	+

Start	236	End	2952
Name	OJ990817_16.0223.C30.ol.gs	Method	GENSCAN
Start	236	End	2794
GI	none	Score	.45
Exons	236..439, 1908..1949, 2492..2794		

Seq. No.	21505	Seq. ID	OJ990817_16.0223.C30
Gene No.	44939	Strand	+
Start	236	End	2952
Name	OJ990817_16.0223.C30.ol.np	Method	AAT/NAP
Start	674	End	2952
GI	5835402	Score	58
Exons	674..840, 2578..2626, 2909..2952		
GI Descrip.	NADH dehydrogenase subunit 1 gi 3122438 sp O03850 NU1M_CERSI NADH-UBIQUINONE OXIDOREDUCTASE CHAIN 1 gi 2052152 emb CAA69006  (Y07726) NADH-ubiquinone oxidoreductase subunit I [Ceratotherium simum]		

Seq. No.	21505	Seq. ID	OJ990817_16.0223.C30
Gene No.	44940	Strand	-
Start	219	End	531
Name	OJ990817_16.0223.C30.ol.gp	Method	AAT/GAP
Start	219	End	531
GI	702913	Score	282
Exons	219..275, 414..531		
GI Descrip.	3063661/gb AAC14280.1  5.0e-36 (AF058391) nucleoside diphosphate kinase Ia [Arabidopsis thaliana]		

Seq. No.	21506	Seq. ID	OJ990817_16.0223.C31
Gene No.	44941	Strand	+
Start	150	End	7928
Name	OJ990817_16.0223.C31.ol.gs	Method	GENSCAN
Start	150	End	7928
GI	none	Score	.96
Exons	150..733, 1588..3190, 3276..3396, 3495..3592, 3785..3850, 4718..4807, 5468..5644, 7803..7928		

Seq. No.	21506	Seq. ID	OJ990817_16.0223.C31
Gene No.	44941	Strand	+
Start	150	End	7928
Name	OJ990817_16.0223.C31.ol.np	Method	AAT/NAP
Start	150	End	6480
GI	4586253	Score	1430
Exons	150..741, 1588..1854, 1930..2911, 2975..3056, 3096..3212, 3269..3420, 3513..3636, 3782..3850, 4718..4807, 5468..5644, 6445..6480		
GI Descrip.	(AL049640) auxilin-like protein [Arabidopsis thaliana]		

Seq. No.	21506	Seq. ID	OJ990817_16.0223.C31
Gene No.	44941	Strand	+
Start	150	End	7928
Name	OJ990817_16.0223.C31.ol.gp	Method	AAT/GAP
Start	618	End	1777
GI	none	Score	561
Exons	618..733, 1588..1777		

Seq. No.	21506	Seq. ID	OJ990817_16.0223.C31
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Gene No. 44941 Strand +  
 Start 150 End 7928  
 Name OJ990817\_16.0223.C31.o2.gp Method AAT/GAP  
 Start 3020 End 6978  
 GI 16295\_1.R1084 Score 2348  
 Exons 3020..3190, 3276..3396, 3495..3592, 3785..3850, 4718..4807,  
 5468..5644, 6445..6978  
 GI Descrip. '4586253/emb|CAB40994.1| 4.0e-66 (AL049640) auxilin-like protein  
 [Arabidopsis thaliana]'

Seq. No. 21506 Seq. ID OJ990817\_16.0223.C31  
 Gene No. 44942 Strand +  
 Start 9942 End 10022  
 Name OJ990817\_16.0223.C31.o3.tm Method TBLASTX:Maize  
 Start 1720 End 2104  
 GI none Score 255  
 Exons 1720..2010, 1721..2011, 1721..2020, 2049..2099, 2051..2104

Seq. No. 21506 Seq. ID OJ990817\_16.0223.C31  
 Gene No. 44942 Strand +  
 Start 9942 End 10022  
 Name OJ990817\_16.0223.C31.o1.tm Method TBLASTX:Maize  
 Start 2107 End 2969  
 GI none Score 143  
 Exons 2107..2223, 2108..2197, 2173..2229, 2192..2233, 2200..2229,  
 2202..2234, 2228..2344, 2235..2363, 2235..2360, 2288..2371,  
 2356..2460, 2356..2475, 2364..2591, 2372..2557, 2454..2561,  
 2536..2634, 2643..2690, 2691..2831, 2798..2932, 2931..2969

Seq. No. 21506 Seq. ID OJ990817\_16.0223.C31  
 Gene No. 44942 Strand +  
 Start 9942 End 10022  
 Name OJ990817\_16.0223.C31.o2.tm Method TBLASTX:Maize  
 Start 2972 End 6871  
 GI none Score 143  
 Exons 2972..3007, 3012..3032, 3098..3187, 3115..3192, 3130..3198,  
 3252..3311, 3268..3330, 3276..3311, 3297..3395, 3298..3399,  
 3320..3394, 3330..3401, 3504..3596, 3534..3593, 3784..3849,  
 3785..3850, 3785..3850, 4708..4809, 4718..4810, 5457..5495,  
 5467..5646, 5468..5644, 5535..5645, 5554..5646, 6442..6489,  
 6444..6491, 6511..6633, 6707..6730, 6741..6770, 6748..6783,  
 6833..6868, 6836..6871

Seq. No. 21506 Seq. ID OJ990817\_16.0223.C31  
 Gene No. 44942 Strand +  
 Start 9942 End 10022  
 Name OJ990817\_16.0223.C31.o1.tc Method TBLASTX:Cress  
 Start 3784 End 5646  
 GI none Score 95  
 Exons 3784..3843, 3785..3847, 4729..4809, 4730..4810, 5467..5646,  
 5468..5644

Seq. No. 21506 Seq. ID OJ990817\_16.0223.C31  
 Gene No. 44942 Strand +  
 Start 9942 End 10022  
 Name OJ990817\_16.0223.C31.o1.ts Method TBLASTX:Soybean  
 Start 4727 End 5646

GI	none	Score	103
Exons	4727..4810, 4729..4797, 5456..5644, 5459..5554, 5461..5646		
Seq. No.	21506	Seq. ID	OJ990817_16.0223.C31
Gene No.	44942	Strand	+
Start	9942	End	10022
Name	OJ990817_16.0223.C31.o3.gp	Method	AAT/GAP
Start	9942	End	10022
GI	38012_1.R1084	Score	102
Exons	9942..10022		
GI Descrip.	'4097947/gb U72255 OSU72255 2.0e-23 Oryza sativa beta-1,3-glucanase precursor (Gns9) gene, complete cds'		
Seq. No.	21507	Seq. ID	OJ990817_16.0223.C32
Gene No.	44943	Strand	+
Start	1	End	5743
Name	OJ990817_16.0223.C32.o1.np	Method	AAT/NAP
Start	1	End	5740
GI	5281022	Score	2336
Exons	1..1977, 2696..3187, 3262..3353, 3692..3779, 3852..3966, 4140..4269, 4390..4564, 5111..5740		
GI Descrip.	(Z97339) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	21507	Seq. ID	OJ990817_16.0223.C32
Gene No.	44943	Strand	+
Start	1	End	5743
Name	OJ990817_16.0223.C32.o1.gs	Method	GENSCAN
Start	247	End	5743
GI	none	Score	.74
Exons	247..1977, 2696..2855, 3233..3353, 3692..3729, 4392..4564, 5111..5743		
Seq. No.	21507	Seq. ID	OJ990817_16.0223.C32
Gene No.	44944	Strand	+
Start	5781	End	5909
Name	OJ990817_16.0223.C32.o1.gp	Method	AAT/GAP
Start	5781	End	5909
GI	none	Score	194
Exons	5781..5909		
Seq. No.	21507	Seq. ID	OJ990817_16.0223.C32
Gene No.	44945	Strand	+
Start	7113	End	9319
Name	OJ990817_16.0223.C32.o2.np	Method	AAT/NAP
Start	7113	End	9319
GI	5042443	Score	274
Exons	7113..7781, 9293..9319		
GI Descrip.	(AC007789) hypothetical protein [Oryza sativa]		
Seq. No.	21507	Seq. ID	OJ990817_16.0223.C32
Gene No.	44946	Strand	+
Start	15312	End	18438
Name	OJ990817_16.0223.C32.o3.gs	Method	GENSCAN
Start	15312	End	18438
GI	none	Score	.46
Exons	15312..16464, 16499..17964, 18025..18438		

Seq. No.	21507	Seq. ID	OJ990817_16.0223.C32
Gene No.	44946	Strand	+
Start	15312	End	18438
Name	OJ990817_16.0223.C32.o3.np	Method	AAT/NAP
Start	15312	End	18435
GI	5902445	Score	3108
Exons	15312..17154, 17194..18435		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	21507	Seq. ID	OJ990817_16.0223.C32
Gene No.	44947	Strand	-
Start	18991	End	19787
Name	OJ990817_16.0223.C32.o1.tc	Method	TBLASTX:Cress
Start	3262	End	3965
GI	none	Score	102
Exons	3262..3351, 3692..3784, 3693..3779, 3851..3961, 3852..3965		

Seq. No.	21507	Seq. ID	OJ990817_16.0223.C32
Gene No.	44947	Strand	-
Start	18991	End	19787
Name	OJ990817_16.0223.C32.o1.ts	Method	TBLASTX:Soybean
Start	4441	End	5461
GI	none	Score	168
Exons	4441..4515, 4442..4564, 4443..4571, 4444..4572, 5107..5148, 5108..5218, 5227..5352, 5228..5461		

Seq. No.	21507	Seq. ID	OJ990817_16.0223.C32
Gene No.	44947	Strand	-
Start	18991	End	19787
Name	OJ990817_16.0223.C32.o3.tm	Method	TBLASTX:Maize
Start	5204	End	5461
GI	none	Score	356
Exons	5204..5461, 5227..5352, 5352..5393		

Seq. No.	21507	Seq. ID	OJ990817_16.0223.C32
Gene No.	44947	Strand	-
Start	18991	End	19787
Name	OJ990817_16.0223.C32.o7.tw	Method	TBLASTX:Wheat
Start	13587	End	13979
GI	none	Score	58
Exons	13587..13631, 13632..13745, 13643..13693, 13704..13979, 13751..13978		

Seq. No.	21507	Seq. ID	OJ990817_16.0223.C32
Gene No.	44947	Strand	-
Start	18991	End	19787
Name	OJ990817_16.0223.C32.o5.tm	Method	TBLASTX:Maize
Start	13626	End	13865
GI	none	Score	195
Exons	13626..13865		

Seq. No.	21507	Seq. ID	OJ990817_16.0223.C32
Gene No.	44947	Strand	-
Start	18991	End	19787
Name	OJ990817_16.0223.C32.o5.tw	Method	TBLASTX:Wheat
Start	14610	End	15065
GI	none	Score	149

Exons 14610..14792, 14618..14791, 14829..15065, 14831..14947,  
14835..15008

Seq. No.	21507	Seq. ID	OJ990817_16.0223.C32
Gene No.	44947	Strand	-
Start	18991	End	19787
Name	OJ990817_16.0223.C32.o1.tw	Method	TBLASTX:Wheat
Start	15257	End	15713
GI	none	Score	563
Exons	15257..15712, 15258..15713		

Seq. No.	21507	Seq. ID	OJ990817_16.0223.C32
Gene No.	44947	Strand	-
Start	18991	End	19787
Name	OJ990817_16.0223.C32.o3.ts	Method	TBLASTX:Soybean
Start	15297	End	15662
GI	none	Score	111
Exons	15297..15521, 15528..15662		

Seq. No.	21507	Seq. ID	OJ990817_16.0223.C32
Gene No.	44947	Strand	-
Start	18991	End	19787
Name	OJ990817_16.0223.C32.o1.tm	Method	TBLASTX:Maize
Start	15387	End	15743
GI	none	Score	419
Exons	15387..15743, 15441..15689, 15449..15730		

Seq. No.	21507	Seq. ID	OJ990817_16.0223.C32
Gene No.	44947	Strand	-
Start	18991	End	19787
Name	OJ990817_16.0223.C32.o4.tm	Method	TBLASTX:Maize
Start	15771	End	16154
GI	none	Score	315
Exons	15771..16154, 15798..15908, 15805..15987, 15938..16153		

Seq. No.	21507	Seq. ID	OJ990817_16.0223.C32
Gene No.	44947	Strand	-
Start	18991	End	19787
Name	OJ990817_16.0223.C32.o2.tw	Method	TBLASTX:Wheat
Start	15828	End	16252
GI	none	Score	450
Exons	15828..16250, 15828..16217, 15938..16252		

Seq. No.	21507	Seq. ID	OJ990817_16.0223.C32
Gene No.	44947	Strand	-
Start	18991	End	19787
Name	OJ990817_16.0223.C32.o2.ts	Method	TBLASTX:Soybean
Start	15882	End	16307
GI	none	Score	311
Exons	15882..16307, 15941..16066		

Seq. No.	21507	Seq. ID	OJ990817_16.0223.C32
Gene No.	44947	Strand	-
Start	18991	End	19787
Name	OJ990817_16.0223.C32.o6.tw	Method	TBLASTX:Wheat
Start	16401	End	16809
GI	none	Score	211

Exons 16401..16628, 16402..16626, 16636..16809, 16729..16809

Seq. No.	21507	Seq. ID	OJ990817_16.0223.C32
Gene No.	44947	Strand	-
Start	18991	End	19787
Name	OJ990817_16.0223.C32.o4.ts	Method	TBLASTX:Soybean
Start	16525	End	16908
GI	none	Score	85
Exons	16525..16650, 16660..16908		

Seq. No.	21507	Seq. ID	OJ990817_16.0223.C32
Gene No.	44947	Strand	-
Start	18991	End	19787
Name	OJ990817_16.0223.C32.o8.tw	Method	TBLASTX:Wheat
Start	16840	End	17106
GI	none	Score	177
Exons	16840..17106		

Seq. No.	21507	Seq. ID	OJ990817_16.0223.C32
Gene No.	44947	Strand	-
Start	18991	End	19787
Name	OJ990817_16.0223.C32.o2.tm	Method	TBLASTX:Maize
Start	17305	End	17616
GI	none	Score	359
Exons	17305..17616, 17328..17615		

Seq. No.	21507	Seq. ID	OJ990817_16.0223.C32
Gene No.	44947	Strand	-
Start	18991	End	19787
Name	OJ990817_16.0223.C32.o4.tw	Method	TBLASTX:Wheat
Start	17311	End	17694
GI	none	Score	367
Exons	17311..17694, 17319..17693		

Seq. No.	21507	Seq. ID	OJ990817_16.0223.C32
Gene No.	44947	Strand	-
Start	18991	End	19787
Name	OJ990817_16.0223.C32.o3.tw	Method	TBLASTX:Wheat
Start	17816	End	18426
GI	none	Score	338
Exons	17816..17872, 17818..18270, 17967..18074, 18295..18426, 18300..18425		

Seq. No.	21507	Seq. ID	OJ990817_16.0223.C32
Gene No.	44947	Strand	-
Start	18991	End	19787
Name	OJ990817_16.0223.C32.o6.tm	Method	TBLASTX:Maize
Start	18124	End	18390
GI	none	Score	148
Exons	18124..18306, 18307..18390		

Seq. No.	21507	Seq. ID	OJ990817_16.0223.C32
Gene No.	44947	Strand	-
Start	18991	End	19787
Name	OJ990817_16.0223.C32.o4.gs	Method	GENSCAN
Start	18991	End	19787
GI	none	Score	.51

Exons 18991..19106, 19691..19787

Seq. No.	21508	Seq. ID	OJ990817_16.0223.C33
Gene No.	44948	Strand	+
Start	8392	End	8449
Name	OJ990817_16.0223.C33.o1.gp	Method	AAT/GAP
Start	8392	End	8449
GI	2312838	Score	61
Exons	8392..8449		
GI Descrip.	1420932/gb U61383 ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence		

Seq. No.	21508	Seq. ID	OJ990817_16.0223.C33
Gene No.	44949	Strand	+
Start	11711	End	14040
Name	OJ990817_16.0223.C33.o2.gp	Method	AAT/GAP
Start	11573	End	11989
GI	LIB3475-006-P1-K1-G7	Score	517
Exons	11573..11820, 11921..11989		
GI Descrip.	'3063661/gb AAC14280.1  5.0e-36 (AF058391) nucleoside diphosphate kinase Ia [Arabidopsis thaliana]'		

Seq. No.	21508	Seq. ID	OJ990817_16.0223.C33
Gene No.	44949	Strand	+
Start	11711	End	14040
Name	OJ990817_16.0223.C33.o3.gs	Method	GENSCAN
Start	11711	End	14040
GI	none	Score	.91
Exons	11711..11820, 11921..12038, 12327..12385, 12511..12998, 13099..13259, 13426..13623, 13699..13861, 13946..14040		

Seq. No.	21508	Seq. ID	OJ990817_16.0223.C33
Gene No.	44949	Strand	+
Start	11711	End	14040
Name	OJ990817_16.0223.C33.o4.np	Method	AAT/NAP
Start	12539	End	13628
GI	4539298	Score	362
Exons	12539..12998, 13099..13262, 13426..13628		
GI Descrip.	(AL049480) putative calmodulin-binding protein [Arabidopsis thaliana]		

Seq. No.	21508	Seq. ID	OJ990817_16.0223.C33
Gene No.	44950	Strand	+
Start	14702	End	15271
Name	OJ990817_16.0223.C33.o3.gp	Method	AAT/GAP
Start	14702	End	15271
GI	none	Score	1022
Exons	14702..15271		

Seq. No.	21508	Seq. ID	OJ990817_16.0223.C33
Gene No.	44951	Strand	-
Start	1711	End	9840
Name	OJ990817_16.0223.C33.o2.gs	Method	GENSCAN
Start	1711	End	9840
GI	none	Score	.75
Exons	1711..1870, 2034..2487, 2586..2728, 2850..3145, 3147..3287, 3298..3483, 3772..3906, 4019..4143, 4223..4972, 5403..5548,		

5612..5733, 6070..6117, 6630..6762, 9770..9840

Seq. No. 21508 Seq. ID OJ990817\_16.0223.C33  
Gene No. 44951 Strand -  
Start 1711 End 9840  
Name OJ990817\_16.0223.C33.o1.np Method AAT/NAP  
Start 2849 End 4985  
GI 6721561 Score 878  
Exons 2849..3572, 3643..3701, 3772..3951, 4917..4985  
GI Descrip. (AP001073) EST AU082058(C12976) corresponds to a region of the  
predicted gene.; hypothetical protein [Oryza sativa]  
gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976)  
corresponds to a region of the predicted gene.; hypothetical  
protein [Oryza sativa]

Seq. No. 21508 Seq. ID OJ990817\_16.0223.C33  
Gene No. 44951 Strand -  
Start 1711 End 9840  
Name OJ990817\_16.0223.C33.o2.np Method AAT/NAP  
Start 2968 End 4943  
GI 6721558 Score 244  
Exons 2968..3182, 4019..4143, 4844..4943  
GI Descrip. (AP001073) hypothetical protein [Oryza sativa]  
gi|6815083|dbj|BAA90369.1| (AP001081) hypothetical protein  
[Oryza sativa]

Seq. No. 21508 Seq. ID OJ990817\_16.0223.C33  
Gene No. 44951 Strand -  
Start 1711 End 9840  
Name OJ990817\_16.0223.C33.o3.np Method AAT/NAP  
Start 5774 End 5891  
GI 6721512 Score 69  
Exons 5774..5891  
GI Descrip. (AP001072) hypothetical protein [Oryza sativa]

Seq. No. 21508 Seq. ID OJ990817\_16.0223.C33  
Gene No. 44952 Strand -  
Start 14774 End 17086  
Name OJ990817\_16.0223.C33.o4.gs Method GENSCAN  
Start 14774 End 16916  
GI none Score .86  
Exons 14774..14970, 15620..15768, 15878..16290, 16758..16916

Seq. No. 21508 Seq. ID OJ990817\_16.0223.C33  
Gene No. 44952 Strand -  
Start 14774 End 17086  
Name OJ990817\_16.0223.C33.o5.np Method AAT/NAP  
Start 15879 End 17086  
GI 2529677 Score 74  
Exons 15879..16371, 16814..16916, 17018..17086  
GI Descrip. (AC002535) putative kinesin heavy chain [Arabidopsis thaliana]

Seq. No. 21509 Seq. ID OJ990817\_16.0223.C34  
Gene No. 44953 Strand -  
Start 1 End 937  
Name OJ990817\_16.0223.C34.o1.np Method AAT/NAP  
Start 1 End 913

GI	3421378	Score	686
Exons	1..176, 259..419, 542..718, 807..913		
GI Descrip.	(AF080249) kinesin-like heavy chain [Arabidopsis thaliana]		

  

Seq. No.	21509	Seq. ID	OJ990817_16.0223.C34
Gene No.	44953	Strand	-
Start	1	End	937
Name	OJ990817_16.0223.C34.o1.tc	Method	TBLASTX:Cress
Start	2	End	914
GI	none	Score	108
Exons	2..178, 3..179, 4..180, 236..313, 246..380, 247..423, 247..312, 261..419, 346..420, 542..727, 654..728, 807..914, 808..897		

  

Seq. No.	21509	Seq. ID	OJ990817_16.0223.C34
Gene No.	44953	Strand	-
Start	1	End	937
Name	OJ990817_16.0223.C34.o1.ts	Method	TBLASTX:Soybean
Start	2	End	419
GI	none	Score	134
Exons	2..178, 5..175, 245..409, 246..416, 247..417, 247..414, 261..419		

  

Seq. No.	21509	Seq. ID	OJ990817_16.0223.C34
Gene No.	44953	Strand	-
Start	1	End	937
Name	OJ990817_16.0223.C34.o1.tm	Method	TBLASTX:Maize
Start	2	End	916
GI	none	Score	65
Exons	2..124, 2..178, 3..179, 247..393, 261..392, 553..684, 557..700, 563..694, 807..911, 808..891, 815..916		

  

Seq. No.	21509	Seq. ID	OJ990817_16.0223.C34
Gene No.	44953	Strand	-
Start	1	End	937
Name	OJ990817_16.0223.C34.o1.gs	Method	GENSCAN
Start	259	End	896
GI	none	Score	.88
Exons	259..395, 578..718, 807..896		

  

Seq. No.	21509	Seq. ID	OJ990817_16.0223.C34
Gene No.	44953	Strand	-
Start	1	End	937
Name	OJ990817_16.0223.C34.o2.ts	Method	TBLASTX:Soybean
Start	542	End	937
GI	none	Score	73
Exons	542..727, 550..633, 563..718, 807..911, 808..897, 818..925, 821..937		

  

Seq. No.	21510	Seq. ID	OJ990817_16.0223.C35
Gene No.	44954	Strand	-
Start	1	End	2201
Name	OJ990817_16.0223.C35.o1.np	Method	AAT/NAP
Start	1	End	1997
GI	2529677	Score	356
Exons	1..22, 113..346, 780..923, 1020..1186, 1882..1997		
GI Descrip.	(AC002535) putative kinesin heavy chain [Arabidopsis thaliana]		

  

Seq. No.	21510	Seq. ID	OJ990817_16.0223.C35
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Gene No.	44954	Strand	-
Start	1	End	2201
Name	OJ990817_16.0223.C35.ol.gs	Method	GENSCAN
Start	89	End	2201
GI	none	Score	.77
Exons	89..346, 780..923, 1020..1186, 1882..2201		
Seq. No.	21510	Seq. ID	OJ990817_16.0223.C35
Gene No.	44954	Strand	-
Start	1	End	2201
Name	OJ990817_16.0223.C35.ol.tc	Method	TBLASTX:Cress
Start	239	End	1190
GI	none	Score	65
Exons	239..346, 240..350, 769..888, 780..887, 1017..1190, 1032..1181		
Seq. No.	21510	Seq. ID	OJ990817_16.0223.C35
Gene No.	44954	Strand	-
Start	1	End	2201
Name	OJ990817_16.0223.C35.ol.tm	Method	TBLASTX:Maize
Start	783	End	1191
GI	none	Score	73
Exons	783..923, 784..924, 1017..1178, 1017..1190, 1018..1191		
Seq. No.	21510	Seq. ID	OJ990817_16.0223.C35
Gene No.	44954	Strand	-
Start	1	End	2201
Name	OJ990817_16.0223.C35.ol.ts	Method	TBLASTX:Soybean
Start	789	End	1191
GI	none	Score	84
Exons	789..926, 790..924, 1012..1191, 1017..1190		
Seq. No.	21511	Seq. ID	OJ990817_16.0223.C36
Gene No.	44955	Strand	+
Start	411	End	597
Name	OJ990817_16.0223.C36.ol.gs	Method	GENSCAN
Start	411	End	597
GI	none	Score	.94
Exons	411..597		
Seq. No.	21512	Seq. ID	OJ990817_16.0223.C37
Gene No.	44956	Strand	-
Start	2024	End	2203
Name	OJ990817_16.0223.C37.ol.gs	Method	GENSCAN
Start	2024	End	2203
GI	none	Score	.74
Exons	2024..2203		
Seq. No.	21513	Seq. ID	OJ990817_16.0223.C38
Gene No.	44957	Strand	-
Start	1786	End	1954
Name	OJ990817_16.0223.C38.ol.gp	Method	AAT/GAP
Start	1153	End	1615
GI	LIB3432-059-P1-K1-D8	Score	730
Exons	1153..1615		
GI Descrip.	'5734616/dbj AP000391.1 AP000391 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	21513	Seq. ID	OJ990817_16.0223.C38
Gene No.	44957	Strand	-
Start	1786	End	1954
Name	OJ990817_16.0223.C38.o1.gs	Method	GENSCAN
Start	1786	End	1954
GI	none	Score	.63
Exons	1786..1954		

Seq. No.	21514	Seq. ID	OJ990817_16.0223.C41
Gene No.	44958	Strand	-
Start	51	End	209
Name	OJ990817_16.0223.C41.o1.gs	Method	GENSCAN
Start	51	End	209
GI	none	Score	.56
Exons	51..209		

Seq. No.	21515	Seq. ID	OJ990817_16.0223.C45
Gene No.	44959	Strand	-
Start	1	End	595
Name	OJ990817_16.0223.C45.o1.np	Method	AAT/NAP
Start	1	End	595
GI	6907086	Score	779
Exons	1..595		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	21515	Seq. ID	OJ990817_16.0223.C45
Gene No.	44959	Strand	-
Start	1	End	595
Name	OJ990817_16.0223.C45.o1.gs	Method	GENSCAN
Start	86	End	285
GI	none	Score	.68
Exons	86..285		

Seq. No.	21516	Seq. ID	OJ990817_16.0223.C47
Gene No.	44960	Strand	-
Start	1	End	748
Name	OJ990817_16.0223.C47.o1.np	Method	AAT/NAP
Start	1	End	748
GI	6652882	Score	171
Exons	1..538, 705..748		
GI Descrip.	(AF123392) 26S proteasome AAA-ATPase subunit RPT3 [Arabidopsis thaliana]		

Seq. No.	21516	Seq. ID	OJ990817_16.0223.C47
Gene No.	44960	Strand	-
Start	1	End	748
Name	OJ990817_16.0223.C47.o1.gs	Method	GENSCAN
Start	96	End	424
GI	none	Score	.67
Exons	96..162, 251..424		

Seq. No.	21517	Seq. ID	OJ990817_16.0223.C50
Gene No.	44961	Strand	+
Start	1	End	1251
Name	OJ990817_16.0223.C50.o1.np	Method	AAT/NAP
Start	1	End	1251
GI	6721512	Score	54

Exons	1..81, 940..1109, 1223..1251		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		
Seq. No.	21518	Seq. ID	OJ990817_16.0223.C52
Gene No.	44962	Strand	+
Start	1	End	412
Name	OJ990817_16.0223.C52.ol.np	Method	AAT/NAP
Start	1	End	412
GI	4416302	Score	296
Exons	1..412		
GI Descrip.	(AF105716) copia-type pol polyprotein [Zea mays]		
Seq. No.	21518	Seq. ID	OJ990817_16.0223.C52
Gene No.	44962	Strand	+
Start	1	End	412
Name	OJ990817_16.0223.C52.ol.ts	Method	TBLASTX:Soybean
Start	1	End	361
GI	none	Score	165
Exons	1..201, 2..211, 230..361		
Seq. No.	21518	Seq. ID	OJ990817_16.0223.C52
Gene No.	44962	Strand	+
Start	1	End	412
Name	OJ990817_16.0223.C52.ol.tm	Method	TBLASTX:Maize
Start	1	End	361
GI	none	Score	251
Exons	1..96, 2..214, 133..213, 209..361		
Seq. No.	21518	Seq. ID	OJ990817_16.0223.C52
Gene No.	44962	Strand	+
Start	1	End	412
Name	OJ990817_16.0223.C52.ol.gs	Method	GENSCAN
Start	23	End	386
GI	none	Score	.61
Exons	23..386		
Seq. No.	21519	Seq. ID	OJ990817_16.0223.C57
Gene No.	44963	Strand	-
Start	1	End	703
Name	OJ990817_16.0223.C57.ol.np	Method	AAT/NAP
Start	1	End	703
GI	6539588	Score	163
Exons	1..44, 529..703		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		
Seq. No.	21520	Seq. ID	OJ990817_16.0223.C60
Gene No.	44964	Strand	-
Start	1	End	1671
Name	OJ990817_16.0223.C60.ol.np	Method	AAT/NAP
Start	1	End	1671
GI	6539588	Score	318
Exons	1..40, 1342..1671		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		
Seq. No.	21521	Seq. ID	OJ990817_16.0223.C62
Gene No.	44965	Strand	-
Start	101	End	536

Name	OJ990817_16.0223.C62.o1.gs	Method	GENSCAN
Start	101	End	536
GI	none	Score	.5
Exons	101..271, 482..536		
Seq. No.	21522	Seq. ID	OJ990817_16.0223.C63
Gene No.	44966	Strand	+
Start	1	End	846
Name	OJ990817_16.0223.C63.o1.gp	Method	AAT/GAP
Start	1	End	615
GI	53307_1.R1084	Score	482
Exons	1..100, 341..469, 552..615		
GI Descrip.	'3786011 5.0e-24 (AC005499) putative elongation factor [Arabidopsis thaliana]'		
Seq. No.	21522	Seq. ID	OJ990817_16.0223.C63
Gene No.	44966	Strand	+
Start	1	End	846
Name	OJ990817_16.0223.C63.o1.np	Method	AAT/NAP
Start	1	End	846
GI	3786011	Score	304
Exons	1..100, 346..469, 552..668, 762..846		
GI Descrip.	(AC005499) putative RNA-binding protein [Arabidopsis thaliana]		
Seq. No.	21522	Seq. ID	OJ990817_16.0223.C63
Gene No.	44966	Strand	+
Start	1	End	846
Name	OJ990817_16.0223.C63.o1.tm	Method	TBLASTX:Maize
Start	1	End	670
GI	none	Score	60
Exons	1..84, 1..93, 2..97, 53..103, 364..447, 376..465, 377..469, 380..469, 506..670, 552..659, 556..660		
Seq. No.	21522	Seq. ID	OJ990817_16.0223.C63
Gene No.	44966	Strand	+
Start	1	End	846
Name	OJ990817_16.0223.C63.o1.gs	Method	GENSCAN
Start	29	End	668
GI	none	Score	.85
Exons	29..100, 341..469, 552..668		
Seq. No.	21522	Seq. ID	OJ990817_16.0223.C63
Gene No.	44966	Strand	+
Start	1	End	846
Name	OJ990817_16.0223.C63.o1.ts	Method	TBLASTX:Soybean
Start	370	End	676
GI	none	Score	119
Exons	370..468, 371..469, 380..469, 494..676, 552..668		
Seq. No.	21523	Seq. ID	OJ990817_16.0223.C65
Gene No.	44967	Strand	+
Start	211	End	627
Name	OJ990817_16.0223.C65.o1.gs	Method	GENSCAN
Start	211	End	627
GI	none	Score	.49
Exons	211..383, 551..627		

Seq. No.	21524	Seq. ID	OJ990817_16.0223.C70
Gene No.	44968	Strand	-
Start	1	End	419
Name	OJ990817_16.0223.C70.o1.np	Method	AAT/NAP
Start	1	End	419
GI	6907088	Score	359
Exons	1..106, 282..419		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	21525	Seq. ID	OJ990817_16.0223.C71
Gene No.	44969	Strand	+
Start	1	End	1252
Name	OJ990817_16.0223.C71.o1.np	Method	AAT/NAP
Start	1	End	356
GI	6002794	Score	577
Exons	1..356		
GI Descrip.	(AF149813) unknown [Oryza sativa]		

Seq. No.	21525	Seq. ID	OJ990817_16.0223.C71
Gene No.	44969	Strand	+
Start	1	End	1252
Name	OJ990817_16.0223.C71.o2.np	Method	AAT/NAP
Start	1	End	1252
GI	4680179	Score	176
Exons	1..25, 684..832, 1071..1252		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	21525	Seq. ID	OJ990817_16.0223.C71
Gene No.	44969	Strand	+
Start	1	End	1252
Name	OJ990817_16.0223.C71.o1.tw	Method	TBLASTX:Wheat
Start	1078	End	1251
GI	none	Score	177
Exons	1078..1251		

Seq. No.	21526	Seq. ID	OJ990817_09.0204.C1
Gene No.	44970	Strand	+
Start	244	End	1721
Name	OJ990817_09.0204.C1.o1.tm	Method	TBLASTX:Maize
Start	238	End	983
GI	none	Score	80
Exons	238..420, 242..421, 251..418, 255..425, 256..420, 851..982, 851..982, 852..983		

Seq. No.	21526	Seq. ID	OJ990817_09.0204.C1
Gene No.	44970	Strand	+
Start	244	End	1721
Name	OJ990817_09.0204.C1.o1.tc	Method	TBLASTX:Cress
Start	242	End	989
GI	none	Score	247
Exons	242..421, 244..420, 276..422, 489..518, 851..973, 852..974, 852..989		

Seq. No.	21526	Seq. ID	OJ990817_09.0204.C1
Gene No.	44970	Strand	+
Start	244	End	1721
Name	OJ990817_09.0204.C1.o1.np	Method	AAT/NAP

Start	244	End	1721
GI	2462911	Score	377
Exons	244..422, 853..989, 1674..1721		
GI Descrip.	(283832) UDP-glucose:sterol glucosyltransferase [Avena sativa]		

Seq. No.	21526	Seq. ID	OJ990817_09.0204.C1
Gene No.	44970	Strand	+
Start	244	End	1721
Name	OJ990817_09.0204.C1.o1.gs	Method	GENSCAN
Start	245	End	1334
GI	none	Score	.96
Exons	245..422, 853..983, 1320..1334		

Seq. No.	21526	Seq. ID	OJ990817_09.0204.C1
Gene No.	44970	Strand	+
Start	244	End	1721
Name	OJ990817_09.0204.C1.o1.ts	Method	TBLASTX:Soybean
Start	245	End	983
GI	none	Score	258
Exons	245..421, 247..420, 851..982, 851..982, 852..983, 852..983		

Seq. No.	21527	Seq. ID	OJ990817_09.0204.C2
Gene No.	44971	Strand	+
Start	1	End	3180
Name	OJ990817_09.0204.C2.o1.np	Method	AAT/NAP
Start	1	End	3180
GI	2462911	Score	543
Exons	1..20, 787..898, 994..1070, 1693..1740, 1843..1992, 2995..3180		
GI Descrip.	(283832) UDP-glucose:sterol glucosyltransferase [Avena sativa]		

Seq. No.	21527	Seq. ID	OJ990817_09.0204.C2
Gene No.	44972	Strand	+
Start	4716	End	8891
Name	OJ990817_09.0204.C2.o2.np	Method	AAT/NAP
Start	4716	End	8891
GI	6063554	Score	367
Exons	4716..4780, 7123..7322, 7438..7755, 8071..8100, 8719..8891		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	21527	Seq. ID	OJ990817_09.0204.C2
Gene No.	44973	Strand	-
Start	7671	End	12742
Name	OJ990817_09.0204.C2.o1.ts	Method	TBLASTX:Soybean
Start	795	End	3120
GI	none	Score	50
Exons	795..896, 795..899, 796..897, 995..1072, 997..1071, 999..1073, 1693..1719, 1707..1739, 1842..1994, 1843..1995, 1845..1994, 1864..1995, 2992..3120, 2994..3083		

Seq. No.	21527	Seq. ID	OJ990817_09.0204.C2
Gene No.	44973	Strand	-
Start	7671	End	12742
Name	OJ990817_09.0204.C2.o2.tm	Method	TBLASTX:Maize
Start	795	End	1733
GI	none	Score	145

Exons 795..893, 796..894, 797..895, 995..1072, 999..1073, 1689..1733

Seq. No.	21527	Seq. ID	OJ990817_09.0204.C2
Gene No.	44973	Strand	-
Start	7671	End	12742
Name	OJ990817_09.0204.C2.o1.tc	Method	TBLASTX:Cress
Start	1686	End	1995
GI	none	Score	74
Exons	1686..1742, 1842..1937, 1842..1994, 1843..1995		

Seq. No.	21527	Seq. ID	OJ990817_09.0204.C2
Gene No.	44973	Strand	-
Start	7671	End	12742
Name	OJ990817_09.0204.C2.o1.tm	Method	TBLASTX:Maize
Start	1830	End	1994
GI	none	Score	255
Exons	1830..1994, 1837..1992		

Seq. No.	21527	Seq. ID	OJ990817_09.0204.C2
Gene No.	44973	Strand	-
Start	7671	End	12742
Name	OJ990817_09.0204.C2.o3.np	Method	AAT/NAP
Start	7671	End	12742
GI	3063699	Score	182
Exons	7671..7716, 11538..11950, 11990..12060, 12139..12267, 12601..12742		

GI Descrip. (AL022537) putative protein [Arabidopsis thaliana]

Seq. No.	21527	Seq. ID	OJ990817_09.0204.C2
Gene No.	44973	Strand	-
Start	7671	End	12742
Name	OJ990817_09.0204.C2.o1.gp	Method	AAT/GAP
Start	9268	End	9536
GI	61605_3.R1084	Score	417
Exons	9268..9536		
GI Descrip.	'1402920/emb CAA66965  2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	21528	Seq. ID	OJ990817_09.0204.C3
Gene No.	44974	Strand	+
Start	124	End	3537
Name	OJ990817_09.0204.C3.o1.gs	Method	GENSCAN
Start	124	End	3537
GI	none	Score	.59
Exons	124..249, 3528..3537		

Seq. No.	21529	Seq. ID	OJ990817_09.0204.C4
Gene No.	44975	Strand	+
Start	356	End	1877
Name	OJ990817_09.0204.C4.o1.gs	Method	GENSCAN
Start	356	End	1877
GI	none	Score	.6
Exons	356..497, 1056..1202, 1266..1551, 1817..1877		

Seq. No.	21530	Seq. ID	OJ990817_09.0204.C5
Gene No.	44976	Strand	+
Start	522	End	4098

Name	OJ990817_09.0204.C5.o1.gs	Method	GENSCAN
Start	522	End	4098
GI	none	Score	.66
Exons	522..566, 3022..3238, 3448..3549, 3780..3899, 4007..4098		

Seq. No.	21530	Seq. ID	OJ990817_09.0204.C5
Gene No.	44977	Strand	+
Start	10042	End	13057
Name	OJ990817_09.0204.C5.o3.gs	Method	GENSCAN
Start	10042	End	12907
GI	none	Score	.65
Exons	10042..10506, 10575..10598, 11418..11549, 11554..11677, 11683..11900, 12533..12907		

Seq. No.	21530	Seq. ID	OJ990817_09.0204.C5
Gene No.	44977	Strand	+
Start	10042	End	13057
Name	OJ990817_09.0204.C5.o1.np	Method	AAT/NAP
Start	10333	End	13057
GI	6706420	Score	447
Exons	10333..10462, 11372..11958, 12968..13057		
GI Descrip.	(AL133248) 40S ribosomal protein S2 homolog [Arabidopsis thaliana]		

Seq. No.	21530	Seq. ID	OJ990817_09.0204.C5
Gene No.	44978	Strand	+
Start	13719	End	14417
Name	OJ990817_09.0204.C5.o4.gs	Method	GENSCAN
Start	13719	End	14417
GI	none	Score	.75
Exons	13719..14417		

Seq. No.	21530	Seq. ID	OJ990817_09.0204.C5
Gene No.	44979	Strand	+
Start	14674	End	15132
Name	OJ990817_09.0204.C5.o2.gp	Method	AAT/GAP
Start	14674	End	15132
GI	none	Score	869
Exons	14674..15132		

Seq. No.	21530	Seq. ID	OJ990817_09.0204.C5
Gene No.	44980	Strand	-
Start	7422	End	8688
Name	OJ990817_09.0204.C5.o1.gp	Method	AAT/GAP
Start	7205	End	8438
GI	15409_1.R1084	Score	2428
Exons	7205..8438		
GI Descrip.	'2827536/emb CAA16544.1  8.0e-25 (AL021633) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	21530	Seq. ID	OJ990817_09.0204.C5
Gene No.	44980	Strand	-
Start	7422	End	8688
Name	OJ990817_09.0204.C5.o2.gs	Method	GENSCAN
Start	7422	End	8428
GI	none	Score	.59
Exons	7422..7668, 7800..8428		



Seq. No.	21530	Seq. ID	OJ990817_09.0204.C5
Gene No.	44980	Strand	-
Start	7422	End	8688
Name	OJ990817_09.0204.C5.o1.tm	Method	TBLASTX:Maize
Start	7689	End	8146
GI	none	Score	334
Exons	7689..7712, 7704..7790, 7779..8135, 7781..8146, 7784..8146		

Seq. No.	21530	Seq. ID	OJ990817_09.0204.C5
Gene No.	44980	Strand	-
Start	7422	End	8688
Name	OJ990817_09.0204.C5.o2.tc	Method	TBLASTX:Cress
Start	7841	End	8572
GI	none	Score	152
Exons	7841..8191, 7890..8213, 8429..8572		

Seq. No.	21530	Seq. ID	OJ990817_09.0204.C5
Gene No.	44980	Strand	-
Start	7422	End	8688
Name	OJ990817_09.0204.C5.o2.ts	Method	TBLASTX:Soybean
Start	7874	End	8635
GI	none	Score	169
Exons	7874..8221, 7875..8189, 8351..8635, 8427..8588		

Seq. No.	21530	Seq. ID	OJ990817_09.0204.C5
Gene No.	44980	Strand	-
Start	7422	End	8688
Name	OJ990817_09.0204.C5.o3.tm	Method	TBLASTX:Maize
Start	8494	End	8688
GI	none	Score	302
Exons	8494..8688, 8496..8681		

Seq. No.	21530	Seq. ID	OJ990817_09.0204.C5
Gene No.	44981	Strand	-
Start	11334	End	11907
Name	OJ990817_09.0204.C5.o2.tm	Method	TBLASTX:Maize
Start	11334	End	11907
GI	none	Score	49
Exons	11334..11408, 11369..11401, 11371..11400, 11411..11497, 11413..11628, 11413..11628, 11427..11639, 11540..11632, 11584..11661, 11669..11707, 11681..11821, 11686..11901, 11711..11899, 11712..11906, 11713..11907		

Seq. No.	21530	Seq. ID	OJ990817_09.0204.C5
Gene No.	44981	Strand	-
Start	11334	End	11907
Name	OJ990817_09.0204.C5.o1.ts	Method	TBLASTX:Soybean
Start	11360	End	11907
GI	none	Score	52
Exons	11360..11401, 11371..11433, 11416..11514, 11416..11499, 11499..11639, 11500..11628, 11629..11661, 11669..11713, 11675..11770, 11711..11899, 11712..11906, 11815..11907		

Seq. No.	21530	Seq. ID	OJ990817_09.0204.C5
Gene No.	44981	Strand	-
Start	11334	End	11907

Name	OJ990817_09.0204.C5.o1.tc	Method	TBLASTX:Cress
Start	11369	End	11906
GI	none	Score	43
Exons	11369..11401, 11413..11514, 11431..11490, 11500..11628, 11505..11639, 11629..11661, 11669..11713, 11711..11899, 11712..11906		

Seq. No.	21530	Seq. ID	OJ990817_09.0204.C5
Gene No.	44981	Strand	
Start	11334	End	11907
Name	OJ990817_09.0204.C5.o1.tw	Method	TBLASTX:Wheat
Start	11580	End	11882
GI	none	Score	60
Exons	11580..11639, 11581..11628, 11594..11632, 11629..11661, 11669..11707, 11681..11821, 11714..11881, 11715..11882		

Seq. No.	21531	Seq. ID	OJ990817_09.0204.C6
Gene No.	44982	Strand	+
Start	1	End	11664
Name	OJ990817_09.0204.C6.o1.np	Method	AAT/NAP
Start	1	End	8404
GI	5852180	Score	399
Exons	1..304, 1490..1548, 2526..2662, 2714..3101, 8375..8404		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	21531	Seq. ID	OJ990817_09.0204.C6
Gene No.	44982	Strand	+
Start	1	End	11664
Name	OJ990817_09.0204.C6.o1.gs	Method	GENSCAN
Start	581	End	712
GI	none	Score	.65
Exons	581..712		

Seq. No.	21531	Seq. ID	OJ990817_09.0204.C6
Gene No.	44982	Strand	+
Start	1	End	11664
Name	OJ990817_09.0204.C6.o2.np	Method	AAT/NAP
Start	2043	End	4377
GI	4514637	Score	115
Exons	2043..2077, 3783..3982, 4268..4377		
GI Descrip.	(AB021176) root cap protein 2 [Zea mays]		

Seq. No.	21531	Seq. ID	OJ990817_09.0204.C6
Gene No.	44982	Strand	+
Start	1	End	11664
Name	OJ990817_09.0204.C6.o2.gs	Method	GENSCAN
Start	2590	End	9955
GI	none	Score	.48
Exons	2590..3011, 3783..4009, 4178..4390, 5449..5552, 8327..8690, 8790..9142, 9277..9493, 9519..9955		

Seq. No.	21531	Seq. ID	OJ990817_09.0204.C6
Gene No.	44982	Strand	+
Start	1	End	11664
Name	OJ990817_09.0204.C6.o3.np	Method	AAT/NAP
Start	8327	End	11643
GI	4680203	Score	3124

Exons 8327..10013, 10167..10390, 10666..11643  
GI Descrip. (AF114171) TNP2-like protein [Sorghum bicolor]

Seq. No. 21531 Seq. ID OJ990817\_09.0204.C6  
Gene No. 44982 Strand +  
Start 1 End 11664  
Name OJ990817\_09.0204.C6.o3.gs Method GENSCAN  
Start 10816 End 11664  
GI none Score .97  
Exons 10816..11664

Seq. No. 21531 Seq. ID OJ990817\_09.0204.C6  
Gene No. 44983 Strand +  
Start 13036 End 14619  
Name OJ990817\_09.0204.C6.o4.gs Method GENSCAN  
Start 13036 End 14619  
GI none Score .94  
Exons 13036..13511, 13599..13772, 13862..13972, 14074..14146,  
14242..14340, 14440..14619

Seq. No. 21531 Seq. ID OJ990817\_09.0204.C6  
Gene No. 44984 Strand -  
Start 1397 End 1778  
Name OJ990817\_09.0204.C6.o1.gp Method AAT/GAP  
Start 1397 End 1778  
GI uC-osflcyp033a04b1 Score 643  
Exons 1397..1778  
GI Descrip. '6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic  
DNA, chromosome 1, clone:P0711E10'

Seq. No. 21531 Seq. ID OJ990817\_09.0204.C6  
Gene No. 44985 Strand  
Start 6522 End 6938  
Name OJ990817\_09.0204.C6.o3.tm Method TBLASTX:Maize  
Start 6522 End 6938  
GI none Score 199  
Exons 6522..6719, 6523..6876, 6885..6938

Seq. No. 21531 Seq. ID OJ990817\_09.0204.C6  
Gene No. 44986 Strand  
Start 8636 End 9037  
Name OJ990817\_09.0204.C6.o4.tw Method TBLASTX:Wheat  
Start 8636 End 9037  
GI none Score 86  
Exons 8636..8788, 8655..8774, 8771..9022, 8779..9012, 8780..9037,  
8782..9024, 8790..9032

Seq. No. 21531 Seq. ID OJ990817\_09.0204.C6  
Gene No. 44987 Strand  
Start 8953 End 9829  
Name OJ990817\_09.0204.C6.o1.ts Method TBLASTX:Soybean  
Start 8953 End 9381  
GI none Score 103  
Exons 8953..9012, 8954..9028, 9086..9259, 9118..9252, 9265..9381,  
9265..9363

Seq. No. 21531 Seq. ID OJ990817\_09.0204.C6

Gene No.	44987	Strand	
Start	8953	End	9829
Name	OJ990817_09.0204.C6.o2.tw	Method	TBLASTX:Wheat
Start	9253	End	9723
GI	none	Score	66
Exons	9253..9306, 9258..9302, 9303..9404, 9304..9408, 9412..9510, 9417..9455, 9511..9549, 9513..9551, 9562..9723, 9563..9718		
Seq. No.	21531	Seq. ID	OJ990817_09.0204.C6
Gene No.	44987	Strand	
Start	8953	End	9829
Name	OJ990817_09.0204.C6.o1.tm	Method	TBLASTX:Maize
Start	9295	End	9757
GI	none	Score	232
Exons	9295..9549, 9307..9549, 9563..9757		
Seq. No.	21531	Seq. ID	OJ990817_09.0204.C6
Gene No.	44987	Strand	
Start	8953	End	9829
Name	OJ990817_09.0204.C6.o2.ts	Method	TBLASTX:Soybean
Start	9587	End	9829
GI	none	Score	199
Exons	9587..9829		
Seq. No.	21531	Seq. ID	OJ990817_09.0204.C6
Gene No.	44988	Strand	
Start	9863	End	10267
Name	OJ990817_09.0204.C6.o3.tw	Method	TBLASTX:Wheat
Start	9863	End	10267
GI	none	Score	84
Exons	9863..9925, 9865..9912, 9911..10153, 9931..10113, 10186..10266, 10187..10267		
Seq. No.	21531	Seq. ID	OJ990817_09.0204.C6
Gene No.	44989	Strand	
Start	10268	End	11589
Name	OJ990817_09.0204.C6.o1.tw	Method	TBLASTX:Wheat
Start	10268	End	11589
GI	none	Score	51
Exons	10268..10372, 10272..10373, 10273..10392, 10274..10393, 10369..10689, 10371..10718, 10371..11174, 10738..11190, 11165..11230, 11184..11225, 11185..11229, 11232..11330, 11236..11295, 11274..11414, 11275..11403, 11305..11421, 11343..11423, 11427..11480, 11428..11508, 11497..11589, 11501..11572, 11523..11588		
Seq. No.	21531	Seq. ID	OJ990817_09.0204.C6
Gene No.	44989	Strand	
Start	10268	End	11589
Name	OJ990817_09.0204.C6.o2.tm	Method	TBLASTX:Maize
Start	10316	End	10629
GI	none	Score	79
Exons	10316..10384, 10381..10629, 10401..10601		
Seq. No.	21531	Seq. ID	OJ990817_09.0204.C6
Gene No.	44989	Strand	
Start	10268	End	11589

Name	OJ990817_09.0204.C6.o1.tc	Method	TBLASTX:Cress
Start	10560	End	11008
GI	none	Score	165
Exons	10560..10973, 10564..10689, 10598..10702, 10738..10986, 10760..11008, 10858..11007		

Seq. No.	21532	Seq. ID	OJ990817_09.0204.C7
Gene No.	44990	Strand	+
Start	6457	End	6798
Name	OJ990817_09.0204.C7.o2.gs	Method	GENSCAN
Start	6457	End	6798
GI	none	Score	.77
Exons	6457..6579, 6640..6798		

Seq. No.	21532	Seq. ID	OJ990817_09.0204.C7
Gene No.	44991	Strand	-
Start	1	End	5525
Name	OJ990817_09.0204.C7.o1.tm	Method	TBLASTX:Maize
Start	1	End	511
GI	none	Score	120
Exons	1..375, 1..387, 1..387, 1..390, 1..330, 61..402, 163..387, 248..388, 248..397, 248..385, 254..367, 254..388, 254..367, 254..397, 254..382, 254..388, 257..379, 257..385, 257..385, 257..394, 257..394, 257..391, 257..379, 260..376, 260..400, 260..379, 266..385, 266..325, 269..388, 299..373, 302..397, 305..385, 305..412, 359..394, 404..421, 404..427, 404..427, 404..427, 445..480, 455..484, 455..511, 456..506		

Seq. No.	21532	Seq. ID	OJ990817_09.0204.C7
Gene No.	44991	Strand	-
Start	1	End	5525
Name	OJ990817_09.0204.C7.o1.np	Method	AAT/NAP
Start	1	End	5525
GI	119714	Score	160
Exons	1..406, 5353..5525		
GI Descrip.	EXTENSIN PRECURSOR (CELL WALL HYDROXYPROLINE-RICH GLYCOPROTEIN) gi 82169 pir  S06733 hydroxyproline-rich glycoprotein precursor - common tobacco gi 19867 emb CAA32090  (X13885) extensin (AA 1-620) [Nicotiana tabacum]		

Seq. No.	21532	Seq. ID	OJ990817_09.0204.C7
Gene No.	44991	Strand	-
Start	1	End	5525
Name	OJ990817_09.0204.C7.o1.gp	Method	AAT/GAP
Start	1	End	208
GI	5667462	Score	399
Exons	1..208		

Seq. No.	21532	Seq. ID	OJ990817_09.0204.C7
Gene No.	44991	Strand	-
Start	1	End	5525
Name	OJ990817_09.0204.C7.o2.gp	Method	AAT/GAP
Start	173	End	538
GI	5667461	Score	707
Exons	173..538		

Seq. No.	21532	Seq. ID	OJ990817_09.0204.C7
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Gene No.	44992	Strand	
Start	7780	End	8076
Name	OJ990817_09.0204.C7.o2.tm	Method	TBLASTX:Maize
Start	7780	End	8076
GI	none	Score	96
Exons	7780..7884, 7781..7885, 7886..7969, 7888..7968, 7911..8072, 7912..8076		

Seq. No.	21533	Seq. ID	OJ990817_09.0204.C8
Gene No.	44993	Strand	+
Start	117	End	230
Name	OJ990817_09.0204.C8.o1.gs	Method	GENSCAN
Start	117	End	230
GI	none	Score	.72
Exons	117..230		

Seq. No.	21533	Seq. ID	OJ990817_09.0204.C8
Gene No.	44994	Strand	+
Start	1313	End	1739
Name	OJ990817_09.0204.C8.o1.gp	Method	AAT/GAP
Start	1313	End	1678
GI	5667461	Score	639
Exons	1313..1678		

Seq. No.	21533	Seq. ID	OJ990817_09.0204.C8
Gene No.	44994	Strand	+
Start	1313	End	1739
Name	OJ990817_09.0204.C8.o1.tm	Method	TBLASTX:Maize
Start	1331	End	1739
GI	none	Score	104
Exons	1331..1426, 1348..1425, 1424..1447, 1424..1447, 1424..1447, 1424..1447, 1449..1739, 1451..1486, 1455..1697, 1457..1492, 1458..1733, 1463..1486, 1463..1492, 1464..1721, 1464..1688, 1464..1730, 1464..1718, 1470..1739, 1475..1504, 1476..1733, 1476..1733, 1478..1504, 1479..1718, 1482..1739, 1521..1721, 1524..1739, 1536..1739		

Seq. No.	21534	Seq. ID	OJ990817_09.0204.C9
Gene No.	44995	Strand	-
Start	2401	End	2649
Name	OJ990817_09.0204.C9.o2.gs	Method	GENSCAN
Start	2401	End	2649
GI	none	Score	.69
Exons	2401..2649		

Seq. No.	21534	Seq. ID	OJ990817_09.0204.C9
Gene No.	44996	Strand	-
Start	3544	End	7836
Name	OJ990817_09.0204.C9.o1.np	Method	AAT/NAP
Start	3544	End	5686
GI	6063554	Score	.225
Exons	3544..3717, 4763..4811, 4896..5095, 5411..5686		
GI Descrip.	(AP000615) ESTs AU075609(C63344), C71850(E0464), C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	21534	Seq. ID	OJ990817_09.0204.C9
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Gene No.	44996	Strand	-
Start	3544	End	7836
Name	OJ990817_09.0204.C9.o2.np	Method	AAT/NAP
Start	4271	End	5174
GI	5852178	Score	402
Exons	4271..4373, 4737..4834, 4866..5174		
GI Descrip.	(AL117265) zhb0008.1 [Oryza sativa]		

Seq. No.	21534	Seq. ID	OJ990817_09.0204.C9
Gene No.	44996	Strand	-
Start	3544	End	7836
Name	OJ990817_09.0204.C9.o3.gs	Method	GENSCAN
Start	4707	End	6159
GI	none	Score	.55
Exons	4707..4777, 4798..4834, 4866..5118, 5123..5189, 5961..6159		

Seq. No.	21534	Seq. ID	OJ990817_09.0204.C9
Gene No.	44996	Strand	-
Start	3544	End	7836
Name	OJ990817_09.0204.C9.o3.np	Method	AAT/NAP
Start	4959	End	7836
GI	4514635	Score	244
Exons	4959..5042, 5914..6177, 7785..7836		
GI Descrip.	(AB021175) root cap protein 1 [Zea mays]		

Seq. No.	21534	Seq. ID	OJ990817_09.0204.C9
Gene No.	44997	Strand	-
Start	7907	End	12229
Name	OJ990817_09.0204.C9.o4.np	Method	AAT/NAP
Start	7907	End	12229
GI	6815052	Score	1986
Exons	7907..8026, 8305..8378, 8460..9197, 9246..9381, 10159..10251, 11130..11229, 11524..11641, 11920..11994, 12076..12229		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	21534	Seq. ID	OJ990817_09.0204.C9
Gene No.	44997	Strand	-
Start	7907	End	12229
Name	OJ990817_09.0204.C9.o1.tw	Method	TBLASTX:Wheat
Start	9433	End	9927
GI	none	Score	74
Exons	9433..9927, 9509..9691, 9637..9903		

Seq. No.	21535	Seq. ID	OJ990817_09.0204.C10
Gene No.	44998	Strand	+
Start	3244	End	4689
Name	OJ990817_09.0204.C10.o2.gs	Method	GENSCAN
Start	3244	End	4689
GI	none	Score	.55
Exons	3244..4689		

Seq. No.	21535	Seq. ID	OJ990817_09.0204.C10
Gene No.	44999	Strand	+
Start	9883	End	10679
Name	OJ990817_09.0204.C10.o2.np	Method	AAT/NAP
Start	9883	End	10679
GI	3241854	Score	580

Exons 9883..10679  
 GI Descrip. (AB006009) thaumatin-like protein precursor [Pyrus pyrifolia]

Seq. No.	21535	Seq. ID	OJ990817_09.0204.C10
Gene No.	45000	Strand	+
Start	12475	End	22866
Name	OJ990817_09.0204.C10.o4.gs	Method	GENSCAN
Start	12475	End	22607
GI	none	Score	.57
Exons	12475..12551, 12789..12981, 14996..15191, 16815..16945, 17168..17295, 17638..17855, 18164..18283, 19205..19371, 21008..21250, 22485..22607		

Seq. No.	21535	Seq. ID	OJ990817_09.0204.C10
Gene No.	45000	Strand	+
Start	12475	End	22866
Name	OJ990817_09.0204.C10.o3.gp	Method	AAT/GAP
Start	17948	End	21126
GI	568775	Score	680
Exons	17948..18109, 19286..19371, 21008..21126		

Seq. No.	21535	Seq. ID	OJ990817_09.0204.C10
Gene No.	45000	Strand	+
Start	12475	End	22866
Name	OJ990817_09.0204.C10.o3.np	Method	AAT/NAP
Start	21008	End	22866
GI	2462911	Score	158
Exons	21008..21250, 22826..22866		
GI Descrip.	(Z83832) UDP-glucose:sterol glucosyltransferase [Avena sativa]		

Seq. No.	21535	Seq. ID	OJ990817_09.0204.C10
Gene No.	45001	Strand	-
Start	1632	End	4308
Name	OJ990817_09.0204.C10.o1.np	Method	AAT/NAP
Start	1632	End	4308
GI	3522946	Score	938
Exons	1632..2433, 2523..2922, 4285..4308		
GI Descrip.	(AC004411) putative cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	21535	Seq. ID	OJ990817_09.0204.C10
Gene No.	45002	Strand	-
Start	4432	End	4734
Name	OJ990817_09.0204.C10.o1.ts	Method	TBLASTX:Soybean
Start	1635	End	2866
GI	none	Score	70
Exons	1635..1808, 1638..2255, 1660..1809, 1840..2070, 2149..2253, 2265..2318, 2349..2432, 2519..2866		

Seq. No.	21535	Seq. ID	OJ990817_09.0204.C10
Gene No.	45002	Strand	-
Start	4432	End	4734
Name	OJ990817_09.0204.C10.o1.tm	Method	TBLASTX:Maize
Start	1638	End	2680
GI	none	Score	259
Exons	1638..2165, 1645..2166, 2178..2261, 2179..2262, 2286..2324, 2293..2355, 2340..2432, 2519..2680, 2520..2624		



Seq. No.	21535	Seq. ID	OJ990817_09.0204.C10
Gene No.	45002	Strand	-
Start	4432	End	4734
Name	OJ990817_09.0204.C10.o1.tc	Method	TBLASTX:Cress
Start	1659	End	2054
GI	none	Score	154
Exons	1659..2054, 1663..2028		

Seq. No.	21535	Seq. ID	OJ990817_09.0204.C10
Gene No.	45002	Strand	-
Start	4432	End	4734
Name	OJ990817_09.0204.C10.o2.tw	Method	TBLASTX:Wheat
Start	1999	End	2351
GI	none	Score	100
Exons	1999..2094, 2001..2099, 2103..2264, 2114..2254, 2118..2255, 2149..2262, 2268..2345, 2277..2351, 2278..2346		

Seq. No.	21535	Seq. ID	OJ990817_09.0204.C10
Gene No.	45002	Strand	-
Start	4432	End	4734
Name	OJ990817_09.0204.C10.o4.tc	Method	TBLASTX:Cress
Start	2097	End	2432
GI	none	Score	89
Exons	2097..2285, 2152..2253, 2268..2327, 2337..2432		

Seq. No.	21535	Seq. ID	OJ990817_09.0204.C10
Gene No.	45002	Strand	-
Start	4432	End	4734
Name	OJ990817_09.0204.C10.o1.tw	Method	TBLASTX:Wheat
Start	2371	End	2866
GI	none	Score	66
Exons	2371..2430, 2373..2432, 2519..2701, 2520..2705, 2568..2714, 2690..2866, 2711..2860		

Seq. No.	21535	Seq. ID	OJ990817_09.0204.C10
Gene No.	45002	Strand	-
Start	4432	End	4734
Name	OJ990817_09.0204.C10.o3.tc	Method	TBLASTX:Cress
Start	2531	End	2878
GI	none	Score	223
Exons	2531..2878		

Seq. No.	21535	Seq. ID	OJ990817_09.0204.C10
Gene No.	45002	Strand	-
Start	4432	End	4734
Name	OJ990817_09.0204.C10.o3.tm	Method	TBLASTX:Maize
Start	2732	End	2924
GI	none	Score	135
Exons	2732..2860, 2732..2872, 2858..2914, 2862..2924		

Seq. No.	21535	Seq. ID	OJ990817_09.0204.C10
Gene No.	45002	Strand	-
Start	4432	End	4734
Name	OJ990817_09.0204.C10.o4.tm	Method	TBLASTX:Maize
Start	3211	End	3756
GI	none	Score	154
Exons	3211..3432, 3246..3374, 3484..3510, 3492..3593, 3655..3756,		

3657..3752

Seq. No.	21535	Seq. ID	OJ990817_09.0204.C10
Gene No.	45002	Strand	-
Start	4432	End	4734
Name	OJ990817_09.0204.C10.o3.ts	Method	TBLASTX:Soybean
Start	3655	End	4461
GI	none	Score	128
Exons	3655..3798, 3657..3788, 3857..3913, 3921..4133, 3922..4125, 4130..4168, 4173..4313, 4174..4314, 4324..4350, 4372..4461		

Seq. No.	21535	Seq. ID	OJ990817_09.0204.C10
Gene No.	45002	Strand	-
Start	4432	End	4734
Name	OJ990817_09.0204.C10.o2.tm	Method	TBLASTX:Maize
Start	4228	End	4494
GI	none	Score	107
Exons	4228..4284, 4229..4285, 4288..4494, 4299..4334, 4300..4341, 4384..4485, 4385..4486, 4392..4490		

Seq. No.	21535	Seq. ID	OJ990817_09.0204.C10
Gene No.	45002	Strand	-
Start	4432	End	4734
Name	OJ990817_09.0204.C10.o1.gp	Method	AAT/GAP
Start	4432	End	4734
GI	6024917	Score	549
Exons	4432..4734		

Seq. No.	21535	Seq. ID	OJ990817_09.0204.C10
Gene No.	45003	Strand	-
Start	9909	End	10696
Name	OJ990817_09.0204.C10.o2.ts	Method	TBLASTX:Soybean
Start	9909	End	10682
GI	none	Score	130
Exons	9909..10082, 9959..10069, 10092..10133, 10142..10240, 10143..10241, 10275..10334, 10353..10424, 10500..10652, 10520..10651, 10659..10682		

Seq. No.	21535	Seq. ID	OJ990817_09.0204.C10
Gene No.	45003	Strand	-
Start	9909	End	10696
Name	OJ990817_09.0204.C10.o2.tc	Method	TBLASTX:Cress
Start	9960	End	10649
GI	none	Score	107
Exons	9960..10079, 9989..10072, 10092..10136, 10142..10240, 10143..10241, 10274..10303, 10275..10334, 10353..10424, 10500..10649		

Seq. No.	21535	Seq. ID	OJ990817_09.0204.C10
Gene No.	45003	Strand	-
Start	9909	End	10696
Name	OJ990817_09.0204.C10.o5.tm	Method	TBLASTX:Maize
Start	9960	End	10241
GI	none	Score	124
Exons	9960..10079, 9986..10078, 10059..10145, 10091..10144, 10136..10237, 10137..10241		

Seq. No.	21535	Seq. ID	OJ990817_09.0204.C10
Gene No.	45003	Strand	
Start	9909	End	10696
Name	OJ990817_09.0204.C10.o3.tw	Method	TBLASTX:Wheat
Start	10499	End	10696
GI	none	Score	200
Exons	10499..10696, 10500..10691		
Seq. No.	21535	Seq. ID	OJ990817_09.0204.C10
Gene No.	45003	Strand	
Start	9909	End	10696
Name	OJ990817_09.0204.C10.o6.tm	Method	TBLASTX:Maize
Start	10499	End	10696
GI	none	Score	210
Exons	10499..10696, 10500..10685		
Seq. No.	21536	Seq. ID	OJ990817_09.0204.C11
Gene No.	45004	Strand	+
Start	619	End	1262
Name	OJ990817_09.0204.C11.o1.np	Method	AAT/NAP
Start	619	End	1262
GI	2462911	Score	335
Exons	619..736, 832..1028, 1213..1262		
GI Descrip.	(Z83832) UDP-glucose:sterol glucosyltransferase [Avena sativa]		
Seq. No.	21536	Seq. ID	OJ990817_09.0204.C11
Gene No.	45004	Strand	+
Start	619	End	1262
Name	OJ990817_09.0204.C11.o1.tc	Method	TBLASTX:Cress
Start	619	End	905
GI	none	Score	187
Exons	619..744, 627..734, 629..739, 833..904, 834..905		
Seq. No.	21536	Seq. ID	OJ990817_09.0204.C11
Gene No.	45004	Strand	+
Start	619	End	1262
Name	OJ990817_09.0204.C11.o1.ts	Method	TBLASTX:Soybean
Start	619	End	1013
GI	none	Score	136
Exons	619..741, 619..741, 831..992, 833..1003, 834..1013		
Seq. No.	21536	Seq. ID	OJ990817_09.0204.C11
Gene No.	45004	Strand	+
Start	619	End	1262
Name	OJ990817_09.0204.C11.o1.tm	Method	TBLASTX:Maize
Start	628	End	1007
GI	none	Score	131
Exons	628..741, 639..746, 833..1003, 834..1007		
Seq. No.	21537	Seq. ID	OJ990817_03.0218.C1
Gene No.	45005	Strand	-
Start	664	End	778
Name	OJ990817_03.0218.C1.o1.gs	Method	GENSCAN
Start	664	End	778
GI	none	Score	.89
Exons	664..778		

Seq. No.	21538	Seq. ID	OJ990817_03.0218.C2
Gene No.	45006	Strand	+
Start	77	End	1220
Name	OJ990817_03.0218.C2.o1.gs	Method	GENSCAN
Start	77	End	1215
GI	none	Score	.41
Exons	77..182, 1144..1215		
Seq. No.	21538	Seq. ID	OJ990817_03.0218.C2
Gene No.	45006	Strand	+
Start	77	End	1220
Name	OJ990817_03.0218.C2.o1.tm	Method	TBLASTX:Maize
Start	621	End	1220
GI	none	Score	115
Exons	621..707, 621..680, 623..706, 951..1055, 959..1069, 1082..1213, 1137..1220, 1142..1219		
Seq. No.	21539	Seq. ID	OJ990817_03.0218.C3
Gene No.	45007	Strand	+
Start	642	End	2866
Name	OJ990817_03.0218.C3.o1.gp	Method	AAT/GAP
Start	642	End	1765
GI	uC-osflM202051d11b1	Score	919
Exons	642..762, 1394..1765		
GI Descrip.	'4585989/gb AAD25625.1 AC005287_27 9.0e-10 (AC005287) Hypothetical protein [Arabidopsis thaliana]'		
Seq. No.	21539	Seq. ID	OJ990817_03.0218.C3
Gene No.	45007	Strand	+
Start	642	End	2866
Name	OJ990817_03.0218.C3.o1.np	Method	AAT/NAP
Start	652	End	2866
GI	4585989	Score	159
Exons	652..762, 1394..1612, 2782..2866		
GI Descrip.	(AC005287) Hypothetical protein [Arabidopsis thaliana]		
Seq. No.	21539	Seq. ID	OJ990817_03.0218.C3
Gene No.	45008	Strand	+
Start	6065	End	6307
Name	OJ990817_03.0218.C3.o3.gs	Method	GENSCAN
Start	6065	End	6307
GI	none	Score	.86
Exons	6065..6307		
Seq. No.	21539	Seq. ID	OJ990817_03.0218.C3
Gene No.	45009	Strand	+
Start	9976	End	12139
Name	OJ990817_03.0218.C3.o4.gs	Method	GENSCAN
Start	9976	End	12139
GI	none	Score	.55
Exons	9976..10392, 10400..10479, 10887..10923, 11119..11222, 11561..11756, 12059..12139		
Seq. No.	21539	Seq. ID	OJ990817_03.0218.C3
Gene No.	45010	Strand	+
Start	13375	End	31942
Name	OJ990817_03.0218.C3.o5.gs	Method	GENSCAN

Start	13375	End	31942
GI	none	Score	.67
Exons	13375..13384, 14065..14119, 15075..15206, 15593..15662, 16078..16135, 16222..16277, 16364..16519, 16638..16749, 16831..16972, 17190..17265, 21247..21354, 21645..21717, 22720..22766, 23220..23292, 23388..23436, 23520..23643, 26534..26872, 28396..28634, 29926..30078, 30403..30641, 31260..31393, 31775..31942		

Seq. No.	21539	Seq. ID	OJ990817_03.0218.C3
Gene No.	45010	Strand	+
Start	13375	End	31942
Name	OJ990817_03.0218.C3.o2.np	Method	AAT/NAP
Start	23207	End	23436
GI	3288716	Score	81
Exons	23207..23292, 23388..23436		
GI Descrip.	(AB015858) AMY-1 [Mus musculus]		

Seq. No.	21539	Seq. ID	OJ990817_03.0218.C3
Gene No.	45010	Strand	+
Start	13375	End	31942
Name	OJ990817_03.0218.C3.o6.gp	Method	AAT/GAP
Start	23220	End	23595
GI	2280603	Score	298
Exons	23220..23292, 23388..23436, 23520..23595		

Seq. No.	21539	Seq. ID	OJ990817_03.0218.C3
Gene No.	45010	Strand	+
Start	13375	End	31942
Name	OJ990817_03.0218.C3.o7.gp	Method	AAT/GAP
Start	23239	End	23626
GI	2280603	Score	346
Exons	23239..23292, 23388..23436, 23520..23626		

Seq. No.	21539	Seq. ID	OJ990817_03.0218.C3
Gene No.	45010	Strand	+
Start	13375	End	31942
Name	OJ990817_03.0218.C3.o8.gp	Method	AAT/GAP
Start	26143	End	26303
GI	LIB3474-009-P1-K1-F11	Score	231
Exons	26143..26303		
GI Descrip.	'4455244/emb CAB36743.1  6.0e-11 (AL035523) MtN3-like protein [Arabidopsis thaliana]'		

Seq. No.	21539	Seq. ID	OJ990817_03.0218.C3
Gene No.	45011	Strand	+
Start	32916	End	33615
Name	OJ990817_03.0218.C3.o9.gp	Method	AAT/GAP
Start	32916	End	33615
GI	3856_1.R1084	Score	1245
Exons	32916..33615		
GI Descrip.	'5734616/dbj AP000391.1 AP000391 7.0e-48 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	21539	Seq. ID	OJ990817_03.0218.C3
Gene No.	45012	Strand	+
Start	36707	End	36873

Name	OJ990817_03.0218.C3.o10.gp	Method	AAT/GAP
Start	36707	End	36873
GI	3106672	Score	233
Exons	36707..36873		
GI Descrip.	5734616/dbj AP000391.1 AP000391 7.0e-48 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01		

Seq. No.	21539	Seq. ID	OJ990817_03.0218.C3
Gene No.	45013	Strand	-
Start	1660	End	3690
Name	OJ990817_03.0218.C3.o2.gs	Method	GENSCAN
Start	1660	End	3690
GI	none	Score	.75
Exons	1660..2040, 3282..3345, 3494..3594, 3649..3690		

Seq. No.	21539	Seq. ID	OJ990817_03.0218.C3
Gene No.	45014	Strand	-
Start	17553	End	17978
Name	OJ990817_03.0218.C3.o3.gp	Method	AAT/GAP
Start	17553	End	17978
GI	none	Score	786
Exons	17553..17978		

Seq. No.	21539	Seq. ID	OJ990817_03.0218.C3
Gene No.	45015	Strand	-
Start	26248	End	33335
Name	OJ990817_03.0218.C3.o3.np	Method	AAT/NAP
Start	26248	End	33335
GI	6706416	Score	149
Exons	26248..26434, 33235..33335		
GI Descrip.	(AL133248) putative protein [Arabidopsis thaliana]		

Seq. No.	21539	Seq. ID	OJ990817_03.0218.C3
Gene No.	45016	Strand	-
Start	39787	End	41434
Name	OJ990817_03.0218.C3.o1.tm	Method	TBLASTX:Maize
Start	651	End	1977
GI	none	Score	142
Exons	651..707, 653..763, 682..765, 688..774, 1390..1605, 1392..1604, 1394..1606, 1514..1723, 1604..1717, 1605..1724, 1654..1728, 1760..1822, 1767..1802, 1802..1840, 1814..1882, 1839..1877, 1839..1886, 1840..1893, 1916..1948, 1948..1977		

Seq. No.	21539	Seq. ID	OJ990817_03.0218.C3
Gene No.	45016	Strand	-
Start	39787	End	41434
Name	OJ990817_03.0218.C3.o3.tm	Method	TBLASTX:Maize
Start	12950	End	16971
GI	none	Score	84
Exons	12950..13000, 12951..13001, 15076..15207, 16077..16139, 16081..16137, 16215..16274, 16220..16276, 16364..16429, 16364..16429, 16433..16519, 16644..16748, 16644..16769, 16822..16971		

Seq. No.	21539	Seq. ID	OJ990817_03.0218.C3
Gene No.	45016	Strand	-
Start	39787	End	41434

Name OJ990817\_03.0218.C3.o2.ts Method TBLASTX:Soybean  
 Start 23219 End 23643  
 GI none Score 87  
 Exons 23219..23296, 23220..23297, 23386..23439, 23387..23437,  
 23520..23639, 23521..23643

Seq. No. 21539 Seq. ID OJ990817\_03.0218.C3  
 Gene No. 45016 Strand -  
 Start 39787 End 41434  
 Name OJ990817\_03.0218.C3.o3.tc Method TBLASTX:Cress  
 Start 23219 End 23659  
 GI none Score 104  
 Exons 23219..23296, 23220..23297, 23386..23439, 23387..23437,  
 23410..23439, 23514..23633, 23520..23648, 23521..23646,  
 23525..23659

Seq. No. 21539 Seq. ID OJ990817\_03.0218.C3  
 Gene No. 45016 Strand -  
 Start 39787 End 41434  
 Name OJ990817\_03.0218.C3.o2.tw Method TBLASTX:Wheat  
 Start 33090 End 33520  
 GI none Score 48  
 Exons 33090..33152, 33094..33153, 33241..33339, 33243..33341,  
 33244..33342, 33409..33519, 33425..33520

Seq. No. 21539 Seq. ID OJ990817\_03.0218.C3  
 Gene No. 45016 Strand -  
 Start 39787 End 41434  
 Name OJ990817\_03.0218.C3.o1.tc Method TBLASTX:Cress  
 Start 33243 End 33481  
 GI none Score 429  
 Exons 33243..33479, 33244..33480, 33380..33481

Seq. No. 21539 Seq. ID OJ990817\_03.0218.C3  
 Gene No. 45016 Strand -  
 Start 39787 End 41434  
 Name OJ990817\_03.0218.C3.o11.gp Method AAT/GAP  
 Start 39456 End 41434  
 GI 645\_1.R1084 Score 1463  
 Exons 39456..39942, 40024..40146, 41247..41434  
 GI Descrip. '3915131/sp|Q42443|THIH ORYSA 5.0e-61 THIOREDOXIN H-TYPE (TRX-H)  
 (PHLOEM SAP 13 KD PROTEIN-1) >gi\_426442\_dbj\_BAA04864\_ (D21836)  
 thioredoxin h [Oryza sativa] >gi\_454882\_dbj\_BAA05546\_ (D26547)  
 rice thioredoxin h [Oryza sativa] >gi\_1930072 (U92541)  
 thioredoxin h [Oryza sativa]'

Seq. No. 21539 Seq. ID OJ990817\_03.0218.C3  
 Gene No. 45016 Strand -  
 Start 39787 End 41434  
 Name OJ990817\_03.0218.C3.o2.tm Method TBLASTX:Maize  
 Start 39785 End 41345  
 GI none Score 99  
 Exons 39785..39919, 39788..39943, 39820..39945, 40000..40146,  
 40003..40140, 40052..40147, 41244..41345, 41245..41343

Seq. No. 21539 Seq. ID OJ990817\_03.0218.C3  
 Gene No. 45016 Strand -

Start	39787	End	41434
Name	OJ990817_03.0218.C3.o7.gs	Method	GENSCAN
Start	39787	End	41432
GI	none	Score	.92
Exons	39787..39942, 40024..40146, 41247..41432		

Seq. No.	21539	Seq. ID	OJ990817_03.0218.C3
Gene No.	45016	Strand	-
Start	39787	End	41434
Name	OJ990817_03.0218.C3.o4.np	Method	AAT/NAP
Start	39790	End	41336
GI	3915131	Score	565
Exons	39790..39942, 40024..40146, 41247..41336		
GI Descrip.	THIOREDOXIN H-TYPE (TRX-H) (PHLOEM SAP 13 KD PROTEIN-1) gi 426442 dbj BAA04864  (D21836) thioredoxin h [Oryza sativa] gi 454882 dbj BAA05546.1  (D26547) rice thioredoxin h [Oryza sativa] gi 1930072 (U92541) thioredoxin h [Oryza sativa]		

Seq. No.	21539	Seq. ID	OJ990817_03.0218.C3
Gene No.	45016	Strand	-
Start	39787	End	41434
Name	OJ990817_03.0218.C3.o1.ts	Method	TBLASTX:Soybean
Start	39803	End	40146
GI	none	Score	112
Exons	39803..39919, 39820..39945, 40024..40146, 40032..40136, 40052..40138		

Seq. No.	21539	Seq. ID	OJ990817_03.0218.C3
Gene No.	45016	Strand	-
Start	39787	End	41434
Name	OJ990817_03.0218.C3.o2.tc	Method	TBLASTX:Cress
Start	39817	End	41336
GI	none	Score	91
Exons	39817..39945, 39821..39940, 40024..40143, 40024..40146, 40052..40147, 41244..41336		

Seq. No.	21539	Seq. ID	OJ990817_03.0218.C3
Gene No.	45016	Strand	-
Start	39787	End	41434
Name	OJ990817_03.0218.C3.o1.tw	Method	TBLASTX:Wheat
Start	39829	End	40147
GI	none	Score	106
Exons	39829..39939, 39833..39937, 40024..40143, 40024..40146, 40025..40147, 40052..40147		

Seq. No.	21540	Seq. ID	OJ990817_03.0218.C4
Gene No.	45017	Strand	+
Start	283	End	1334
Name	OJ990817_03.0218.C4.o1.gs	Method	GENSCAN
Start	283	End	1334
GI	none	Score	.65
Exons	283..446, 1124..1334		

Seq. No.	21540	Seq. ID	OJ990817_03.0218.C4
Gene No.	45018	Strand	+
Start	4709	End	6357
Name	OJ990817_03.0218.C4.o3.gs	Method	GENSCAN



Start 4709  
GI none  
Exons 4709..4756, 6220..6357

End 6357  
Score .83

Seq. No. 21540  
Gene No. 45019  
Start 6403  
Name OJ990817\_03.0218.C4.o3.np  
Start 6403  
GI 6815099  
Exons 6403..6517  
GI Descrip. (AP001081) hypothetical protein [Oryza sativa]

Seq. ID OJ990817\_03.0218.C4  
Strand +  
End 6517  
Method AAT/NAP  
End 6517  
Score 79

Seq. No. 21540  
Gene No. 45020  
Start 10040  
Name OJ990817\_03.0218.C4.o4.np  
Start 10040  
GI 5669778  
Exons 10040..10065, 11877..13070, 13657..13769  
GI Descrip. (AF108008) HV1LRR1 [Hordeum vulgare]

Seq. ID OJ990817\_03.0218.C4  
Strand +  
End 13769  
Method AAT/NAP  
End 13769  
Score 241

Seq. No. 21540  
Gene No. 45021  
Start 2186  
Name OJ990817\_03.0218.C4.o1.np  
Start 2063  
GI 6539570  
Exons 2063..2089, 3977..4043, 4236..4325, 4428..4531  
GI Descrip. (AP000836) hypothetical protein [Oryza sativa]

Seq. ID OJ990817\_03.0218.C4  
Strand -  
End 4531  
Method AAT/NAP  
End 4531  
Score 147

Seq. No. 21540  
Gene No. 45021  
Start 2186  
Name OJ990817\_03.0218.C4.o2.gs  
Start 2186  
GI none  
Exons 2186..2422, 3030..3173, 3550..3674, 3970..3979

Seq. ID OJ990817\_03.0218.C4  
Strand -  
End 4531  
Method GENSCAN  
End 3979  
Score .4

Seq. No. 21540  
Gene No. 45022  
Start 4667  
Name OJ990817\_03.0218.C4.o2.np  
Start 4667  
GI 6630699  
Exons 4667..4750  
GI Descrip. (AP000969) hypothetical protein [Oryza sativa]  
gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]

Seq. ID OJ990817\_03.0218.C4  
Strand -  
End 4750  
Method AAT/NAP  
End 4750  
Score 68

Seq. No. 21541  
Gene No. 45023  
Start 10002  
Name OJ990817\_03.0218.C5.o3.gs  
Start 10002  
GI none  
Exons 10002..10102, 13702..13771, 14083..14177, 14943..15049,

Seq. ID OJ990817\_03.0218.C5  
Strand +  
End 30163  
Method GENSCAN  
End 27719  
Score .41

17337..17685, 19942..20010, 21612..21747, 24235..24308,  
24957..25030, 25289..25356, 25496..25807, 25893..26034,  
27574..27719

Seq. No.	21541	Seq. ID	OJ990817_03.0218.C5
Gene No.	45023	Strand	+
Start	10002	End	30163
Name	OJ990817_03.0218.C5.o2.np	Method	AAT/NAP
Start	10003	End	10104
GI	5922634	Score	78
Exons	10003..10104		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016867 dbj BAA85210.1  (AP000570) hypothetical protein [Oryza sativa]		
Seq. No.	21541	Seq. ID	OJ990817_03.0218.C5
Gene No.	45023	Strand	+
Start	10002	End	30163
Name	OJ990817_03.0218.C5.o2.gp	Method	AAT/GAP
Start	14943	End	22344
GI	15349_1.R1084	Score	1154
Exons	14943..15049, 17337..17685, 19942..20010, 21612..21747, 22305..22344		
GI Descrip.	'629783/pir  S44281 4.0e-43 ES43 protein - barley >gi_1345528_emb_CAA54682_ (X77575) ES43 [Hordeum vulgare]'		
Seq. No.	21541	Seq. ID	OJ990817_03.0218.C5
Gene No.	45023	Strand	+
Start	10002	End	30163
Name	OJ990817_03.0218.C5.o4.np	Method	AAT/NAP
Start	14962	End	22331
GI	629783	Score	791
Exons	14962..15049, 17337..17685, 19942..20010, 21612..21747, 22305..22331		
GI Descrip.	ES43 protein - barley gi 1345528 emb CAA54682  (X77575) ES43 [Hordeum vulgare]		
Seq. No.	21541	Seq. ID	OJ990817_03.0218.C5
Gene No.	45023	Strand	+
Start	10002	End	30163
Name	OJ990817_03.0218.C5.o5.np	Method	AAT/NAP
Start	27185	End	30163
GI	4092771	Score	825
Exons	27185..27262, 28092..30163		
GI Descrip.	(AF105139) disease resistance gene homolog 1A [Brassica napus]		
Seq. No.	21541	Seq. ID	OJ990817_03.0218.C5
Gene No.	45023	Strand	+
Start	10002	End	30163
Name	OJ990817_03.0218.C5.o4.gs	Method	GENSCAN
Start	28020	End	29810
GI	none	Score	.69
Exons	28020..29810		
Seq. No.	21541	Seq. ID	OJ990817_03.0218.C5
Gene No.	45024	Strand	-
Start	1271	End	3784

Name	OJ990817_03.0218.C5.o1.np	Method	AAT/NAP
Start	1023	End	3768
GI	3176715	Score	1281
Exons	1023..1135, 1286..3325, 3353..3547, 3590..3768		
GI Descrip.	(AC002392) putative receptor-like protein kinase [Arabidopsis thaliana]		

Seq. No.	21541	Seq. ID	OJ990817_03.0218.C5
Gene No.	45024	Strand	-
Start	1271	End	3784
Name	OJ990817_03.0218.C5.o1.gs	Method	GENSCAN
Start	1271	End	3784
GI	none	Score	1
Exons	1271..3784		

Seq. No.	21541	Seq. ID	OJ990817_03.0218.C5
Gene No.	45025	Strand	-
Start	4491	End	6152
Name	OJ990817_03.0218.C5.o2.gs	Method	GENSCAN
Start	4491	End	6152
GI	none	Score	.44
Exons	4491..4600, 5317..5363, 5418..5629, 5991..6152		

Seq. No.	21541	Seq. ID	OJ990817_03.0218.C5
Gene No.	45026	Strand	-
Start	8020	End	8132
Name	OJ990817_03.0218.C5.o1.gp	Method	AAT/GAP
Start	8020	End	8132
GI	none	Score	167
Exons	8020..8132		

Seq. No.	21541	Seq. ID	OJ990817_03.0218.C5
Gene No.	45027	Strand	-
Start	10692	End	13053
Name	OJ990817_03.0218.C5.o1.tc	Method	TBLASTX:Cress
Start	1298	End	3571
GI	none	Score	50
Exons	1298..1534, 1373..1531, 1574..2101, 1575..2111, 2112..2177, 2495..2548, 2663..2923, 3443..3571		

Seq. No.	21541	Seq. ID	OJ990817_03.0218.C5
Gene No.	45027	Strand	-
Start	10692	End	13053
Name	OJ990817_03.0218.C5.o2.ts	Method	TBLASTX:Soybean
Start	1313	End	2147
GI	none	Score	67
Exons	1313..1507, 1577..2074, 1584..1700, 1734..1871, 1916..2074, 2127..2147		

Seq. No.	21541	Seq. ID	OJ990817_03.0218.C5
Gene No.	45027	Strand	-
Start	10692	End	13053
Name	OJ990817_03.0218.C5.o2.tm	Method	TBLASTX:Maize
Start	1349	End	2144
GI	none	Score	73
Exons	1349..1507, 1350..1520, 1577..2074, 1584..1862, 1917..2078, 2121..2144		

Seq. No.	21541	Seq. ID	OJ990817_03.0218.C5
Gene No.	45027	Strand	-
Start	10692	End	13053
Name	OJ990817_03.0218.C5.o2.tw	Method	TBLASTX:Wheat
Start	1631	End	2045
GI	none	Score	117
Exons	1631..1690, 1694..1897, 1734..1871, 1892..2044, 1914..2045		

Seq. No.	21541	Seq. ID	OJ990817_03.0218.C5
Gene No.	45027	Strand	-
Start	10692	End	13053
Name	OJ990817_03.0218.C5.o4.tm	Method	TBLASTX:Maize
Start	2144	End	2551
GI	none	Score	72
Exons	2144..2242, 2145..2225, 2270..2416, 2314..2430, 2429..2476, 2432..2479, 2486..2551		

Seq. No.	21541	Seq. ID	OJ990817_03.0218.C5
Gene No.	45027	Strand	-
Start	10692	End	13053
Name	OJ990817_03.0218.C5.o1.tw	Method	TBLASTX:Wheat
Start	2452	End	2855
GI	none	Score	165
Exons	2452..2631, 2453..2644, 2547..2639, 2618..2839, 2655..2855, 2658..2840, 2659..2841		

Seq. No.	21541	Seq. ID	OJ990817_03.0218.C5
Gene No.	45027	Strand	-
Start	10692	End	13053
Name	OJ990817_03.0218.C5.o4.ts	Method	TBLASTX:Soybean
Start	2627	End	2965
GI	none	Score	72
Exons	2627..2836, 2855..2965		

Seq. No.	21541	Seq. ID	OJ990817_03.0218.C5
Gene No.	45027	Strand	-
Start	10692	End	13053
Name	OJ990817_03.0218.C5.o3.np	Method	AAT/NAP
Start	10692	End	13053
GI	5922634	Score	77
Exons	10692..10724, 12882..13053		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016867 dbj BAA85210.1  (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	21541	Seq. ID	OJ990817_03.0218.C5
Gene No.	45028	Strand	-
Start	14954	End	21750
Name	OJ990817_03.0218.C5.o1.tm	Method	TBLASTX:Maize
Start	14954	End	21750
GI	none	Score	107
Exons	14954..14992, 14982..15047, 14983..15048, 17317..17685, 17339..17686, 19942..20013, 19943..20011, 21582..21749, 21612..21746, 21613..21750		

Seq. No.	21541	Seq. ID	OJ990817_03.0218.C5
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Gene No.	45028	Strand	
Start	14954	End	21750
Name	OJ990817_03.0218.C5.o1.ts	Method	TBLASTX:Soybean
Start	14977	End	20019
GI	none	Score	75
Exons	14977..15048, 17335..17442, 17336..17446, 17432..17686, 17434..17688, 17590..17688, 19943..20011, 19945..20019		

Seq. No.	21541	Seq. ID	OJ990817_03.0218.C5
Gene No.	45028	Strand	
Start	14954	End	21750
Name	OJ990817_03.0218.C5.o2.tc	Method	TBLASTX:Cress
Start	17335	End	17611
GI	none	Score	89
Exons	17335..17415, 17339..17410, 17420..17611, 17422..17610, 17447..17611		

Seq. No.	21541	Seq. ID	OJ990817_03.0218.C5
Gene No.	45029	Strand	
Start	28227	End	29563
Name	OJ990817_03.0218.C5.o5.ts	Method	TBLASTX:Soybean
Start	28227	End	28895
GI	none	Score	73
Exons	28227..28328, 28527..28775, 28532..28663, 28830..28895		

Seq. No.	21541	Seq. ID	OJ990817_03.0218.C5
Gene No.	45029	Strand	
Start	28227	End	29563
Name	OJ990817_03.0218.C5.o3.tc	Method	TBLASTX:Cress
Start	28613	End	29381
GI	none	Score	135
Exons	28613..28765, 28614..28790, 28827..28931, 29028..29084, 29115..29192, 29280..29381		

Seq. No.	21541	Seq. ID	OJ990817_03.0218.C5
Gene No.	45029	Strand	
Start	28227	End	29563
Name	OJ990817_03.0218.C5.o3.ts	Method	TBLASTX:Soybean
Start	28908	End	29563
GI	none	Score	59
Exons	28908..28988, 29016..29558, 29078..29185, 29143..29208, 29280..29492, 29327..29563		

Seq. No.	21541	Seq. ID	OJ990817_03.0218.C5
Gene No.	45029	Strand	
Start	28227	End	29563
Name	OJ990817_03.0218.C5.o3.tw	Method	TBLASTX:Wheat
Start	29085	End	29398
GI	none	Score	291
Exons	29085..29396, 29324..29398		

Seq. No.	21541	Seq. ID	OJ990817_03.0218.C5
Gene No.	45029	Strand	
Start	28227	End	29563
Name	OJ990817_03.0218.C5.o3.tm	Method	TBLASTX:Maize
Start	29250	End	29471
GI	none	Score	282

Exons 29250..29471, 29250..29462, 29324..29470

Seq. No.	21542	Seq. ID	OJ990817_03.0218.C6
Gene No.	45030	Strand	+
Start	87	End	217
Name	OJ990817_03.0218.C6.o1.gs	Method	GENSCAN
Start	87	End	217
GI	none	Score	.84
Exons	87..217		

Seq. No.	21543	Seq. ID	OJ990817_03.0218.C7
Gene No.	45031	Strand	+
Start	120	End	329
Name	OJ990817_03.0218.C7.o1.gs	Method	GENSCAN
Start	120	End	329
GI	none	Score	.48
Exons	120..329		

Seq. No.	21544	Seq. ID	OJ990817_03.0218.C8
Gene No.	45032	Strand	+
Start	614	End	1522
Name	OJ990817_03.0218.C8.o1.gs	Method	GENSCAN
Start	614	End	1522
GI	none	Score	.54
Exons	614..667, 1442..1522		

Seq. No.	21544	Seq. ID	OJ990817_03.0218.C8
Gene No.	45033	Strand	-
Start	59	End	1935
Name	OJ990817_03.0218.C8.o1.tm	Method	TBLASTX:Maize
Start	2	End	1896
GI	none	Score	312
Exons	2..391, 3..401, 1836..1895, 1837..1896		

Seq. No.	21544	Seq. ID	OJ990817_03.0218.C8
Gene No.	45033	Strand	-
Start	59	End	1935
Name	OJ990817_03.0218.C8.o1.gp	Method	AAT/GAP
Start	59	End	1935
GI	83775_1.R1084	Score	777
Exons	59..404, 1829..1935		
GI Descrip.	'4538911/emb CAB39648.1  2.0e-18 (AL049482) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	21545	Seq. ID	OJ990817_03.0218.C9
Gene No.	45034	Strand	+
Start	11886	End	14324
Name	OJ990817_03.0218.C9.o3.gs	Method	GENSCAN
Start	11886	End	14324
GI	none	Score	.82
Exons	11886..12122, 12737..12806, 14311..14324		

Seq. No.	21545	Seq. ID	OJ990817_03.0218.C9
Gene No.	45035	Strand	+
Start	16797	End	17452
Name	OJ990817_03.0218.C9.o1.np	Method	AAT/NAP
Start	16797	End	17452

GI 4455358 Score 224  
 Exons 16797..17452  
 GI Descrip. (AL035524) putative protein [Arabidopsis thaliana]

Seq. No. 21545 Seq. ID OJ990817\_03.0218.C9  
 Gene No. 45035 Strand +  
 Start 16797 End 17452  
 Name OJ990817\_03.0218.C9.o1.gp Method AAT/GAP  
 Start 16813 End 17247  
 GI none Score 796  
 Exons 16813..17247

Seq. No. 21545 Seq. ID OJ990817\_03.0218.C9  
 Gene No. 45036 Strand +  
 Start 23022 End 26872  
 Name OJ990817\_03.0218.C9.o2.np Method AAT/NAP  
 Start 23022 End 26866  
 GI 2244806 Score 943  
 Exons 23022..23403, 24436..24572, 24919..25098, 25167..25286,  
 26428..26866  
 GI Descrip. (Z97336) hypothetical protein [Arabidopsis thaliana]

Seq. No. 21545 Seq. ID OJ990817\_03.0218.C9  
 Gene No. 45036 Strand +  
 Start 23022 End 26872  
 Name OJ990817\_03.0218.C9.o5.gs Method GENSCAN  
 Start 23022 End 26872  
 GI none Score .97  
 Exons 23022..23407, 24413..24572, 24919..25095, 26221..26302,  
 26433..26872

Seq. No. 21545 Seq. ID OJ990817\_03.0218.C9  
 Gene No. 45036 Strand +  
 Start 23022 End 26872  
 Name OJ990817\_03.0218.C9.o3.gp Method AAT/GAP  
 Start 23901 End 24352  
 GI 4879172 Score 804  
 Exons 23901..24352

Seq. No. 21545 Seq. ID OJ990817\_03.0218.C9  
 Gene No. 45036 Strand +  
 Start 23022 End 26872  
 Name OJ990817\_03.0218.C9.o4.gp Method AAT/GAP  
 Start 26235 End 26812  
 GI 3763435 Score 829  
 Exons 26235..26302, 26433..26812  
 GI Descrip. 2244806/emb|CAB10229.1| 9.0e-28 (Z97336) hypothetical protein  
 [Arabidopsis thaliana]

Seq. No. 21545 Seq. ID OJ990817\_03.0218.C9  
 Gene No. 45037 Strand +  
 Start 26906 End 27219  
 Name OJ990817\_03.0218.C9.o5.gp Method AAT/GAP  
 Start 26906 End 27219  
 GI 3763436 Score 517  
 Exons 26906..27219

Seq. No.	21545	Seq. ID	OJ990817_03.0218.C9
Gene No.	45038	Strand	-
Start	21031	End	21441
Name	OJ990817_03.0218.C9.o2.tm	Method	TBLASTX:Maize
Start	16904	End	17476
GI	none	Score	80
Exons	16904..16957, 17123..17173, 17138..17476, 17140..17466, 17249..17476		

Seq. No.	21545	Seq. ID	OJ990817_03.0218.C9
Gene No.	45038	Strand	-
Start	21031	End	21441
Name	OJ990817_03.0218.C9.o2.ts	Method	TBLASTX:Soybean
Start	17180	End	17371
GI	none	Score	216
Exons	17180..17371, 17272..17367		

Seq. No.	21545	Seq. ID	OJ990817_03.0218.C9
Gene No.	45038	Strand	-
Start	21031	End	21441
Name	OJ990817_03.0218.C9.o3.tc	Method	TBLASTX:Cress
Start	17180	End	17371
GI	none	Score	220
Exons	17180..17371		

Seq. No.	21545	Seq. ID	OJ990817_03.0218.C9
Gene No.	45038	Strand	-
Start	21031	End	21441
Name	OJ990817_03.0218.C9.o2.gp	Method	AAT/GAP
Start	21031	End	21441
GI	LIB3431-002-P1-N1-B12	Score	814
Exons	21031..21441		
GI Descrip.	'2244806/emb CAB10229.1  9.0e-28 (Z97336) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	21545	Seq. ID	OJ990817_03.0218.C9
Gene No.	45039	Strand	-
Start	23010	End	26877
Name	OJ990817_03.0218.C9.o2.tc	Method	TBLASTX:Cress
Start	23010	End	23297
GI	none	Score	242
Exons	23010..23225, 23220..23297		

Seq. No.	21545	Seq. ID	OJ990817_03.0218.C9
Gene No.	45039	Strand	-
Start	23010	End	26877
Name	OJ990817_03.0218.C9.o1.tm	Method	TBLASTX:Maize
Start	23018	End	26877
GI	none	Score	426
Exons	23018..23179, 23019..23309, 23246..23284, 24411..24572, 24414..24587, 24421..24573, 24903..25094, 24913..25095, 24918..25094, 24922..25095, 25184..25267, 25186..25281, 25188..25271, 25201..25281, 26213..26299, 26218..26301, 26220..26300, 26423..26866, 26425..26877		

Seq. No.	21545	Seq. ID	OJ990817_03.0218.C9
Gene No.	45039	Strand	-



Start	23010	End	26877
Name	OJ990817_03.0218.C9.o1.ts	Method	TBLASTX:Soybean
Start	23049	End	26662
GI	none	Score	118
Exons	23049..23168, 24477..24572, 24913..25095, 24922..25095, 25178..25267, 25188..25271, 26218..26301, 26411..26662, 26467..26652		

Seq. No.	21545	Seq. ID	OJ990817_03.0218.C9
Gene No.	45039	Strand	
Start	23010	End	26877
Name	OJ990817_03.0218.C9.o1.tc	Method	TBLASTX:Cress
Start	24489	End	26575
GI	none	Score	79
Exons	24489..24572, 24913..25095, 24922..25095, 25178..25267, 25188..25271, 26218..26301, 26423..26575, 26431..26556		

Seq. No.	21546	Seq. ID	OJ990305_10.9819.C1
Gene No.	45040	Strand	-
Start	1	End	1263
Name	OJ990305_10.9819.C1.o1.np	Method	AAT/NAP
Start	1	End	1227
GI	2598293	Score	367
Exons	1..287, 1065..1227		
GI Descrip.	(AJ002526) chalcone synthase [Digitalis lanata]		

Seq. No.	21546	Seq. ID	OJ990305_10.9819.C1
Gene No.	45040	Strand	-
Start	1	End	1263
Name	OJ990305_10.9819.C1.o1.gs	Method	GENSCAN
Start	60	End	1263
GI	none	Score	.67
Exons	60..287, 1065..1263		

Seq. No.	21546	Seq. ID	OJ990305_10.9819.C1
Gene No.	45040	Strand	-
Start	1	End	1263
Name	OJ990305_10.9819.C1.o1.tc	Method	TBLASTX:Cress
Start	64	End	1242
GI	none	Score	75
Exons	64..282, 65..280, 1015..1242, 1121..1207		

Seq. No.	21546	Seq. ID	OJ990305_10.9819.C1
Gene No.	45040	Strand	-
Start	1	End	1263
Name	OJ990305_10.9819.C1.o1.tm	Method	TBLASTX:Maize
Start	64	End	1252
GI	none	Score	79
Exons	64..282, 65..295, 1015..1131, 1015..1251, 1151..1252		

Seq. No.	21546	Seq. ID	OJ990305_10.9819.C1
Gene No.	45040	Strand	-
Start	1	End	1263
Name	OJ990305_10.9819.C1.o1.ts	Method	TBLASTX:Soybean
Start	124	End	1249
GI	none	Score	60
Exons	124..282, 125..280, 1033..1245, 1101..1223, 1121..1249		

Seq. No. 21547  
 Gene No. 45041  
 Start 1944  
 Name OJ990305\_10.9819.C2.o1.gs  
 Start 1944  
 GI none  
 Exons 1944..3173

Seq. ID OJ990305\_10.9819.C2  
 Strand -  
 End 3173  
 Method GENSCAN  
 End 3173  
 Score .98

Seq. No. 21547  
 Gene No. 45041  
 Start 1944  
 Name OJ990305\_10.9819.C2.o1.tm  
 Start 2290  
 GI none  
 Exons 2290..2403, 2304..2450, 2305..2451, 2316..2450, 2478..2549, 2509..2565, 2526..2549

Seq. ID OJ990305\_10.9819.C2  
 Strand -  
 End 3173  
 Method TBLASTX:Maize  
 End 2565  
 Score 130

Seq. No. 21548  
 Gene No. 45042  
 Start 679  
 Name OJ990305\_10.9819.C3.o1.gs  
 Start 679  
 GI none  
 Exons 679..820, 981..1000

Seq. ID OJ990305\_10.9819.C3  
 Strand +  
 End 1000  
 Method GENSCAN  
 End 1000  
 Score .76

Seq. No. 21548  
 Gene No. 45043  
 Start 1891  
 Name OJ990305\_10.9819.C3.o1.gp  
 Start 1891  
 GI none  
 Exons 1891..2145

Seq. ID OJ990305\_10.9819.C3  
 Strand +  
 End 2145  
 Method AAT/GAP  
 End 2145  
 Score 462

Seq. No. 21548  
 Gene No. 45044  
 Start 1558  
 Name OJ990305\_10.9819.C3.o2.gs  
 Start 1558  
 GI none  
 Exons 1558..1674, 2788..2877

Seq. ID OJ990305\_10.9819.C3  
 Strand -  
 End 2877  
 Method GENSCAN  
 End 2877  
 Score .7

Seq. No. 21548  
 Gene No. 45045  
 Start 2787  
 Name OJ990305\_10.9819.C3.o2.gp  
 Start 2787  
 GI 32697\_1.R1084  
 Exons 2787..2919

Seq. ID OJ990305\_10.9819.C3  
 Strand -  
 End 2919  
 Method AAT/GAP  
 End 2919  
 Score 210

GI Descrip. '4176420/dbj|BAA37167| 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'

Seq. No. 21549  
 Gene No. 45046  
 Start 641  
 Name OJ990305\_10.9819.C6.o1.np  
 Start 641

Seq. ID OJ990305\_10.9819.C6  
 Strand +  
 End 1079  
 Method AAT/NAP  
 End 1079

GI 4959167 Score 162  
 Exons 641..1079  
 GI Descrip. (AF084416) calmodulin mutant SYNCAM58C [synthetic construct]

Seq. No. 21549 Seq. ID OJ990305\_10.9819.C6  
 Gene No. 45047 Strand +  
 Start 1434 End 1522  
 Name OJ990305\_10.9819.C6.o1.gp Method AAT/GAP  
 Start 1434 End 1522  
 GI LIB3477-003-P1-K1-E9 Score 110  
 Exons 1434..1522  
 GI Descrip. '2498586/sp|Q40638|MPO1\_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY  
 S 1 PRECURSOR (ORY S I) >gi\_1173557 (U31771) Ory s 1 [Oryza  
 sativa]'

Seq. No. 21549 Seq. ID OJ990305\_10.9819.C6  
 Gene No. 45048 Strand +  
 Start 2645 End 3414  
 Name OJ990305\_10.9819.C6.o2.np Method AAT/NAP  
 Start 2645 End 3414  
 GI 5852178 Score 351  
 Exons 2645..3039, 3317..3414  
 GI Descrip. (AL117265) zhb0008.1 [Oryza sativa]

Seq. No. 21549 Seq. ID OJ990305\_10.9819.C6  
 Gene No. 45049 Strand +  
 Start 4159 End 6732  
 Name OJ990305\_10.9819.C6.o3.gs Method GENSCAN  
 Start 4159 End 5702  
 GI none Score .91  
 Exons 4159..4167, 4908..5702

Seq. No. 21549 Seq. ID OJ990305\_10.9819.C6  
 Gene No. 45049 Strand +  
 Start 4159 End 6732  
 Name OJ990305\_10.9819.C6.o3.np Method AAT/NAP  
 Start 4908 End 5704  
 GI 4512231 Score 1217  
 Exons 4908..5704  
 GI Descrip. (AB014741) ORF0 protein [Oryza sativa]

Seq. No. 21549 Seq. ID OJ990305\_10.9819.C6  
 Gene No. 45049 Strand +  
 Start 4159 End 6732  
 Name OJ990305\_10.9819.C6.o4.np Method AAT/NAP  
 Start 5423 End 6732  
 GI 4680179 Score 646  
 Exons 5423..5526, 6044..6732  
 GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. No. 21549 Seq. ID OJ990305\_10.9819.C6  
 Gene No. 45049 Strand +  
 Start 4159 End 6732  
 Name OJ990305\_10.9819.C6.o4.gs Method GENSCAN  
 Start 5991 End 6673  
 GI none Score .93  
 Exons 5991..6673

Seq. No.	21549	Seq. ID	OJ990305_10.9819.C6
Gene No.	45050	Strand	-
Start	2223	End	2941
Name	OJ990305_10.9819.C6.o2.gs	Method	GENSCAN
Start	2223	End	2941
GI	none	Score	.94
Exons	2223..2380, 2481..2616, 2664..2837, 2849..2941		
Seq. No.	21549	Seq. ID	OJ990305_10.9819.C6
Gene No.	45051	Strand	
Start	6138	End	6674
Name	OJ990305_10.9819.C6.o1.tw	Method	TBLASTX:Wheat
Start	6138	End	6524
GI	none	Score	265
Exons	6138..6524, 6198..6521		
Seq. No.	21549	Seq. ID	OJ990305_10.9819.C6
Gene No.	45051	Strand	
Start	6138	End	6674
Name	OJ990305_10.9819.C6.o1.tm	Method	TBLASTX:Maize
Start	6405	End	6674
GI	none	Score	220
Exons	6405..6674, 6405..6614		
Seq. No.	21550	Seq. ID	OJ990305_10.9819.C7
Gene No.	45052	Strand	+
Start	1	End	2649
Name	OJ990305_10.9819.C7.o1.np	Method	AAT/NAP
Start	1	End	2649
GI	4680179	Score	3753
Exons	1..2649		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		
Seq. No.	21550	Seq. ID	OJ990305_10.9819.C7
Gene No.	45052	Strand	+
Start	1	End	2649
Name	OJ990305_10.9819.C7.o1.gs	Method	GENSCAN
Start	119	End	2571
GI	none	Score	.76
Exons	119..931, 1049..1648, 1874..2112, 2184..2571		
Seq. No.	21550	Seq. ID	OJ990305_10.9819.C7
Gene No.	45053	Strand	+
Start	4270	End	6448
Name	OJ990305_10.9819.C7.o3.np	Method	AAT/NAP
Start	4270	End	6427
GI	5921757	Score	694
Exons	4270..4290, 5532..6427		
GI Descrip.	CHALCONE SYNTHASE 2 (NARINGENIN-CHALCONE SYNTHASE 2) gi 2129994 pir  JC5136 naringenin-chalcone synthase (EC 2.3.1.74) 2 - potato gi 1470060 (U47738) chalcone synthase 2 [Solanum tuberosum]		
Seq. No.	21550	Seq. ID	OJ990305_10.9819.C7
Gene No.	45053	Strand	+
Start	4270	End	6448

Name OJ990305\_10.9819.C7.o3.gs  
 Start 5531  
 GI none  
 Exons 5531..6209, 6243..6448

Method GENSCAN  
 End 6448  
 Score .9

Seq. No. 21550  
 Gene No. 45054  
 Start 3400  
 Name OJ990305\_10.9819.C7.o6.tw  
 Start 100  
 GI none  
 Exons 100..180, 101..184, 110..181,

Seq. ID OJ990305\_10.9819.C7  
 Strand -  
 End 4596  
 Method TBLASTX:Wheat  
 End 376  
 Score 124  
 188..376, 196..333

Seq. No. 21550  
 Gene No. 45054  
 Start 3400  
 Name OJ990305\_10.9819.C7.o5.tm  
 Start 197  
 GI none  
 Exons 197..334, 395..697, 448..576

Seq. ID OJ990305\_10.9819.C7  
 Strand -  
 End 4596  
 Method TBLASTX:Maize  
 End 697  
 Score 96

Seq. No. 21550  
 Gene No. 45054  
 Start 3400  
 Name OJ990305\_10.9819.C7.o2.ts  
 Start 251  
 GI none  
 Exons 251..283, 251..283, 289..330,

Seq. ID OJ990305\_10.9819.C7  
 Strand -  
 End 4596  
 Method TBLASTX:Soybean  
 End 646  
 Score 51  
 290..340, 395..646, 403..636

Seq. No. 21550  
 Gene No. 45054  
 Start 3400  
 Name OJ990305\_10.9819.C7.o4.tw  
 Start 378  
 GI none  
 Exons 378..452, 398..661, 400..660

Seq. ID OJ990305\_10.9819.C7  
 Strand -  
 End 4596  
 Method TBLASTX:Wheat  
 End 661  
 Score 56

Seq. No. 21550  
 Gene No. 45054  
 Start 3400  
 Name OJ990305\_10.9819.C7.o3.tw  
 Start 662  
 GI none  
 Exons 662..1087, 670..1080, 737..1087

Seq. ID OJ990305\_10.9819.C7  
 Strand -  
 End 4596  
 Method TBLASTX:Wheat  
 End 1087  
 Score 568

Seq. No. 21550  
 Gene No. 45054  
 Start 3400  
 Name OJ990305\_10.9819.C7.o4.ts  
 Start 668  
 GI none  
 Exons 668..916

Seq. ID OJ990305\_10.9819.C7  
 Strand -  
 End 4596  
 Method TBLASTX:Soybean  
 End 916  
 Score 194

Seq. No. 21550  
 Gene No. 45054  
 Start 3400  
 Name OJ990305\_10.9819.C7.o3.tm

Seq. ID OJ990305\_10.9819.C7  
 Strand -  
 End 4596  
 Method TBLASTX:Maize

Start	734	End	1087
GI	none	Score	438
Exons	734..1087, 757..1002, 1048..1080		

Seq. No.	21550	Seq. ID	OJ990305_10.9819.C7
Gene No.	45054	Strand	-
Start	3400	End	4596
Name	OJ990305_10.9819.C7.o2.tw	Method	TBLASTX:Wheat
Start	1115	End	1654
GI	none	Score	620
Exons	1115..1654, 1297..1650, 1373..1654		

Seq. No.	21550	Seq. ID	OJ990305_10.9819.C7
Gene No.	45054	Strand	-
Start	3400	End	4596
Name	OJ990305_10.9819.C7.o2.tc	Method	TBLASTX:Cress
Start	1352	End	1678
GI	none	Score	84
Exons	1352..1534, 1535..1678, 1537..1677		

Seq. No.	21550	Seq. ID	OJ990305_10.9819.C7
Gene No.	45054	Strand	-
Start	3400	End	4596
Name	OJ990305_10.9819.C7.o3.ts	Method	TBLASTX:Soybean
Start	1442	End	1702
GI	none	Score	301
Exons	1442..1702, 1445..1666, 1453..1701		

Seq. No.	21550	Seq. ID	OJ990305_10.9819.C7
Gene No.	45054	Strand	-
Start	3400	End	4596
Name	OJ990305_10.9819.C7.o4.tm	Method	TBLASTX:Maize
Start	1500	End	1792
GI	none	Score	102
Exons	1500..1787, 1501..1788, 1502..1792		

Seq. No.	21550	Seq. ID	OJ990305_10.9819.C7
Gene No.	45054	Strand	-
Start	3400	End	4596
Name	OJ990305_10.9819.C7.o1.tw	Method	TBLASTX:Wheat
Start	1661	End	2271
GI	none	Score	503
Exons	1661..2098, 1663..2151, 2098..2271, 2211..2270		

Seq. No.	21550	Seq. ID	OJ990305_10.9819.C7
Gene No.	45054	Strand	-
Start	3400	End	4596
Name	OJ990305_10.9819.C7.o1.tm	Method	TBLASTX:Maize
Start	1840	End	2409
GI	none	Score	198
Exons	1840..1995, 1841..2002, 1843..2004, 1999..2097, 2000..2098, 2095..2409, 2104..2388, 2211..2408		

Seq. No.	21550	Seq. ID	OJ990305_10.9819.C7
Gene No.	45054	Strand	-
Start	3400	End	4596
Name	OJ990305_10.9819.C7.o5.tw	Method	TBLASTX:Wheat

End	2604
Score	312

```
Seq. ID  OJ990305_10.9819.C7
Strand   -
End      4596
Method   AAT/NAP
End      4596
Score    174
```

```
Seq. ID   OJ990305_10.9819.C7
Strand    -
End       4596
Method    GENSCAN
End       3645
Score     .82
```

```
Seq. ID   OJ990305_10.9819.C7
Strand
End       6438
Method    TBLASTX:Soybean
End       6438
Score     322
```

```
Seq. ID  OJ990305_10.9819.C7
Strand
End      6438
Method   TBLASTX:Cress
End      6418
Score    318
```

```
Seq. ID   OJ990305_10.9819.C7
Strand
End       6438
Method    TBLASTX:Maize
End       6418
Score     329
```

```
Seq. ID      OJ990305_10.9819.C8
Strand       +
End          3815
Method       AAT/NAP
End          3815
Score        376
```

Seq. No.	21551	Seq. ID	OJ990305_10.9819.C8
Gene No.	45056	Strand	+
Start	862	End	3815
Name	OJ990305_10.9819.C8.o1.gs	Method	GENSCAN
Start	1498	End	3454
GI	none	Score	.6
Exons	1498..1688, 2335..2554, 3318..3454		

Seq. No.	21551	Seq. ID	OJ990305_10.9819.C8
Gene No.	45057	Strand	-
Start	4664	End	9684
Name	OJ990305_10.9819.C8.o2.gs	Method	GENSCAN
Start	4664	End	9684
GI	none	Score	.55
Exons	4664..4822, 5284..5391, 5817..5896, 5992..6030, 6247..6374, 8654..8786, 8829..8933, 9621..9684		

Seq. No.	21551	Seq. ID	OJ990305_10.9819.C8
Gene No.	45058	Strand	-
Start	10488	End	10613
Name	OJ990305_10.9819.C8.o3.gs	Method	GENSCAN
Start	10488	End	10613
GI	none	Score	.61
Exons	10488..10613		

Seq. No.	21552	Seq. ID	OJ990305_10.9819.C9
Gene No.	45059	Strand	+
Start	1172	End	4124
Name	OJ990305_10.9819.C9.o1.gp	Method	AAT/GAP
Start	1172	End	1682
GI	uC-osflM202052c07b1	Score	926
Exons	1172..1682		
GI Descrip.	'4234848 1.0e-12 (AF082131) gag-pol polyprotein [Zea mays]'		

Seq. No.	21552	Seq. ID	OJ990305_10.9819.C9
Gene No.	45059	Strand	+
Start	1172	End	4124
Name	OJ990305_10.9819.C9.o1.np	Method	AAT/NAP
Start	1282	End	4124
GI	4234852	Score	1157
Exons	1282..1457, 1491..4124		
GI Descrip.	(AF082133) gag-pol polyprotein [Zea mays]		

Seq. No.	21552	Seq. ID	OJ990305_10.9819.C9
Gene No.	45059	Strand	+
Start	1172	End	4124
Name	OJ990305_10.9819.C9.o1.tm	Method	TBLASTX:Maize
Start	1373	End	2319
GI	none	Score	504
Exons	1373..1924, 1374..1952, 1698..1976, 2058..2132, 2238..2300, 2239..2319		

Seq. No.	21552	Seq. ID	OJ990305_10.9819.C9
Gene No.	45059	Strand	+
Start	1172	End	4124
Name	OJ990305_10.9819.C9.o1.tw	Method	TBLASTX:Wheat
Start	3268	End	3633



GI	none	Score	156
Exons	3268..3453, 3285..3449, 3478..3633, 3483..3632		

Seq. No.	21552	Seq. ID	OJ990305_10.9819.C9
Gene No.	45059	Strand	+
Start	1172	End	4124
Name	OJ990305_10.9819.C9.o1.ts	Method	TBLASTX:Soybean
Start	3337	End	3696
GI	5509260	Score	237
Exons	3337..3642, 3345..3641, 3664..3696		
GI Descrip.	-		

Seq. No.	21552	Seq. ID	OJ990305_10.9819.C9
Gene No.	45059	Strand	+
Start	1172	End	4124
Name	OJ990305_10.9819.C9.o2.tm	Method	TBLASTX:Maize
Start	3337	End	3642
GI	none	Score	239
Exons	3337..3642, 3345..3629		

Seq. No.	21552	Seq. ID	OJ990305_10.9819.C9
Gene No.	45059	Strand	+
Start	1172	End	4124
Name	OJ990305_10.9819.C9.o1.tc	Method	TBLASTX:Cress
Start	3411	End	3665
GI	none	Score	181
Exons	3411..3548, 3424..3642, 3636..3665		

Seq. No.	21553	Seq. ID	OJ990305_10.9819.C10
Gene No.	45060	Strand	+
Start	688	End	761
Name	OJ990305_10.9819.C10.o1.gs	Method	GENSCAN
Start	688	End	761
GI	none	Score	.85
Exons	688..761		

Seq. No.	21554	Seq. ID	OJ990305_10.9819.C11
Gene No.	45061	Strand	-
Start	313	End	671
Name	OJ990305_10.9819.C11.o1.np	Method	AAT/NAP
Start	226	End	671
GI	6539570	Score	180
Exons	226..292, 468..671		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	21554	Seq. ID	OJ990305_10.9819.C11
Gene No.	45061	Strand	-
Start	313	End	671
Name	OJ990305_10.9819.C11.o1.gs	Method	GENSCAN
Start	313	End	663
GI	none	Score	.44
Exons	313..391, 472..663		

Seq. No.	21555	Seq. ID	OJ990305_10.9819.C12
Gene No.	45062	Strand	+
Start	325	End	1480
Name	OJ990305_10.9819.C12.o1.gs	Method	GENSCAN

End	1480
Score	.98

Seq. No.	21556	Seq. ID	OJ990305_10.9819.C14
Gene No.	45063	Strand	+
Start	391	End	3325
Name	OJ990305_10.9819.C14.o1.gs	Method	GENSCAN
Start	391	End	2558
GI	none	Score	.94
Exons	391..736, 859..1007, 1127..1323, 1410..1650, 1784..1971, 2096..2132, 2544..2558		

Seq. No.	21556	Seq. ID	OJ990305_10.9819.C14
Gene No.	45063	Strand	+
Start	391	End	3325
Name	OJ990305_10.9819.C14.ol.np	Method	AAT/NAP
Start	433	End	3325
GI	4239819	Score	1055
Exons	433..739, 859..1007, 1127..1323, 1410..1650, 1814..1971, 2096..2132, 2221..2279, 2902..2985, 3235..3325		
GI Descrip.	(AB010875) PHR1 [Arabidopsis thaliana]		

Seq. No.	21556	Seq. ID	OJ990305_10.9819.C14
Gene No.	45063	Strand	+
Start	391	End	3325
Name	OJ990305_10.9819.C14.o1.tc	Method	TBLASTX:Cress
Start	508	End	2983
GI	none	Score	78
Exons	508..552, 873..965, 1097..1249, 1126..1242, 1407..1622, 1411..1656, 1411..1629, 1775..1972, 1811..1972, 1819..1974, 2100..2135, 2221..2307, 2223..2285, 2900..2983, 2902..2982		

Seq. No.	21556	Seq. ID	OJ990305_10.9819.C14
Gene No.	45063	Strand	+
Start	391	End	3325
Name	OJ990305_10.9819.C14.o1.tm	Method	TBLASTX:Maize
Start	1213	End	1560
GI	none	Score	121
Exons	1213..1323, 1214..1309, 1390..1560, 1407..1559		

Seq. No.	21557	Seq. ID	OJ990305_10.9819.C15
Gene No.	45064	Strand	-
Start	366	End	693
Name	OJ990305_10.9819.C15.o1.gs	Method	GENSCAN
Start	366	End	693
GI	none	Score	.44
Exons	366..693		

Seq. No.	21558	Seq. ID	OJ990305_10.9819.C17
Gene No.	45065	Strand	-
Start	555	End	2348
Name	OJ990305_10.9819.C17.o1.gs	Method	GENSCAN
Start	555	End	2285
GI	none	Score	.99
Exons	555..2285		

Seq. No.	21558	Seq. ID	OJ990305_10.9819.C17
Gene No.	45065	Strand	-
Start	555	End	2348
Name	OJ990305_10.9819.C17.o1.tw	Method	TBLASTX:Wheat
Start	609	End	1889
GI	none	Score	61
Exons	609..659, 660..716, 661..717, 733..810, 750..851, 760..882, 768..881, 838..954, 861..920, 930..971, 951..1883, 982..1881, 1020..1061, 1442..1882, 1698..1889, 1793..1885		

Seq. No.	21558	Seq. ID	OJ990305_10.9819.C17
Gene No.	45065	Strand	-
Start	555	End	2348
Name	OJ990305_10.9819.C17.o1.np	Method	AAT/NAP
Start	1051	End	2348
GI	6742729	Score	1868
Exons	1051..2348		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	21558	Seq. ID	OJ990305_10.9819.C17
Gene No.	45065	Strand	-
Start	555	End	2348
Name	OJ990305_10.9819.C17.o1.tc	Method	TBLASTX:Cress
Start	1149	End	1596
GI	none	Score	201
Exons	1149..1586, 1149..1592, 1153..1596, 1174..1596		

Seq. No.	21558	Seq. ID	OJ990305_10.9819.C17
Gene No.	45065	Strand	-
Start	555	End	2348
Name	OJ990305_10.9819.C17.o1.tm	Method	TBLASTX:Maize
Start	1527	End	1908
GI	none	Score	144
Exons	1527..1841, 1555..1830, 1858..1908		

Seq. No.	21558	Seq. ID	OJ990305_10.9819.C17
Gene No.	45065	Strand	-
Start	555	End	2348
Name	OJ990305_10.9819.C17.o2.tw	Method	TBLASTX:Wheat
Start	1890	End	2298
GI	none	Score	70
Exons	1890..1970, 1891..1971, 1980..2222, 2004..2246, 2044..2226, 2232..2294, 2238..2294, 2245..2298		

Seq. No.	21559	Seq. ID	OJ990305_10.9819.C18
Gene No.	45066	Strand	+
Start	4975	End	6507
Name	OJ990305_10.9819.C18.o2.gs	Method	GENSCAN
Start	4975	End	6507
GI	none	Score	.81
Exons	4975..5170, 5507..5675, 5808..5875, 5894..6507		

Seq. No.	21559	Seq. ID	OJ990305_10.9819.C18
Gene No.	45066	Strand	+
Start	4975	End	6507
Name	OJ990305_10.9819.C18.o2.np	Method	AAT/NAP
Start	4993	End	6486

GI 231805 Score 924  
 Exons 4993..5170, 5507..6486  
 GI Descrip. CHALCONE SYNTHASE J (NARINGENIN-CHALCONE SYNTHASE J)  
 gi|20536|emb|CAA32737| (X14597) chalcone synthase [Petunia x  
 hybrida]

Seq. No. 21559 Seq. ID OJ990305\_10.9819.C18  
 Gene No. 45067 Strand -  
 Start 1 End 995  
 Name OJ990305\_10.9819.C18.o1.np Method AAT/NAP  
 Start 1 End 995  
 GI 4680203 Score 1059  
 Exons 1..995  
 GI Descrip. (AF114171) TNP2-like protein [Sorghum bicolor]

Seq. No. 21559 Seq. ID OJ990305\_10.9819.C18  
 Gene No. 45068 Strand -  
 Start 6937 End 8293  
 Name OJ990305\_10.9819.C18.o2.tw Method TBLASTX:Wheat  
 Start 3 End 279  
 GI none Score 48  
 Exons 3..89, 87..209, 105..197, 231..278, 232..279

Seq. No. 21559 Seq. ID OJ990305\_10.9819.C18  
 Gene No. 45068 Strand -  
 Start 6937 End 8293  
 Name OJ990305\_10.9819.C18.o2.ts Method TBLASTX:Soybean  
 Start 234 End 521  
 GI none Score 110  
 Exons 234..521, 307..483

Seq. No. 21559 Seq. ID OJ990305\_10.9819.C18  
 Gene No. 45068 Strand -  
 Start 6937 End 8293  
 Name OJ990305\_10.9819.C18.o1.tw Method TBLASTX:Wheat  
 Start 285 End 644  
 GI none Score 163  
 Exons 285..545, 285..554, 292..546, 293..553, 537..644, 551..616

Seq. No. 21559 Seq. ID OJ990305\_10.9819.C18  
 Gene No. 45068 Strand -  
 Start 6937 End 8293  
 Name OJ990305\_10.9819.C18.o1.tm Method TBLASTX:Maize  
 Start 4978 End 6477  
 GI none Score 196  
 Exons 4978..5178, 4984..5172, 5512..5946, 5514..5936, 5946..6191,  
 6016..6207, 6205..6366, 6205..6366, 6418..6477

Seq. No. 21559 Seq. ID OJ990305\_10.9819.C18  
 Gene No. 45068 Strand -  
 Start 6937 End 8293  
 Name OJ990305\_10.9819.C18.o1.tc Method TBLASTX:Cress  
 Start 4987 End 6486  
 GI none Score 185  
 Exons 4987..5172, 5028..5114, 5047..5178, 5512..5946, 5514..5939,  
 5970..5999, 6013..6207, 6205..6366, 6207..6335, 6417..6467,  
 6418..6486

Seq. No.	21559	Seq. ID	OJ990305_10.9819.C18
Gene No.	45068	Strand	-
Start	6937	End	8293
Name	OJ990305_10.9819.C18.o1.ts	Method	TBLASTX:Soybean
Start	5002	End	6492
GI	none	Score	182
Exons	5002..5178, 5023..5178, 5511..5939, 5512..5946, 5946..6197, 6016..6207, 6205..6366, 6207..6335, 6417..6467, 6418..6492		

Seq. No.	21559	Seq. ID	OJ990305_10.9819.C18
Gene No.	45068	Strand	-
Start	6937	End	8293
Name	OJ990305_10.9819.C18.o3.gs	Method	GENSCAN
Start	6937	End	8293
GI	none	Score	.7
Exons	6937..7033, 7474..7682, 8103..8219, 8249..8293		

Seq. No.	21560	Seq. ID	OJ990305_10.9819.C19
Gene No.	45069	Strand	+
Start	926	End	1270
Name	OJ990305_10.9819.C19.o1.gs	Method	GENSCAN
Start	926	End	1270
GI	none	Score	.81
Exons	926..1037, 1075..1270		

Seq. No.	21560	Seq. ID	OJ990305_10.9819.C19
Gene No.	45070	Strand	+
Start	1777	End	2057
Name	OJ990305_10.9819.C19.o2.gs	Method	GENSCAN
Start	1777	End	2057
GI	none	Score	.85
Exons	1777..1797, 1818..2057		

Seq. No.	21561	Seq. ID	OJ990305_10.9819.C20
Gene No.	45071	Strand	+
Start	2403	End	2766
Name	OJ990305_10.9819.C20.o2.gs	Method	GENSCAN
Start	2403	End	2598
GI	none	Score	.94
Exons	2403..2598		

Seq. No.	21561	Seq. ID	OJ990305_10.9819.C20
Gene No.	45071	Strand	+
Start	2403	End	2766
Name	OJ990305_10.9819.C20.o1.np	Method	AAT/NAP
Start	2409	End	2766
GI	5305915	Score	175
Exons	2409..2766		
GI Descrip.	(AF152552) chalcone synthase 5 [Sorghum bicolor]		

Seq. No.	21561	Seq. ID	OJ990305_10.9819.C20
Gene No.	45071	Strand	+
Start	2403	End	2766
Name	OJ990305_10.9819.C20.o1.tm	Method	TBLASTX:Maize
Start	2412	End	2600
GI	none	Score	193

Exons 2412..2600, 2456..2542

Seq. No.	21561	Seq. ID	OJ990305_10.9819.C20
Gene No.	45071	Strand	+
Start	2403	End	2766
Name	OJ990305_10.9819.C20.o1.ts	Method	TBLASTX:Soybean
Start	2420	End	2606
GI	none	Score	187
Exons	2420..2512, 2430..2600, 2448..2606		

Seq. No.	21562	Seq. ID	OJ990305_10.9819.C22
Gene No.	45072	Strand	+
Start	1	End	291
Name	OJ990305_10.9819.C22.o1.np	Method	AAT/NAP
Start	1	End	291
GI	1345660	Score	123
Exons	1..291		
GI Descrip.	CALMODULIN gi 505152 emb CAA43142  (X60737) Calmodulin [Malus domestica]		

Seq. No.	21563	Seq. ID	OJ990305_10.9819.C23
Gene No.	45073	Strand	+
Start	1	End	1437
Name	OJ990305_10.9819.C23.o1.np	Method	AAT/NAP
Start	1	End	1437
GI	4680179	Score	1708
Exons	1..1437		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	21563	Seq. ID	OJ990305_10.9819.C23
Gene No.	45073	Strand	+
Start	1	End	1437
Name	OJ990305_10.9819.C23.o3.tw	Method	TBLASTX:Wheat
Start	109	End	462
GI	none	Score	231
Exons	109..462		

Seq. No.	21563	Seq. ID	OJ990305_10.9819.C23
Gene No.	45073	Strand	+
Start	1	End	1437
Name	OJ990305_10.9819.C23.o3.tm	Method	TBLASTX:Maize
Start	466	End	657
GI	none	Score	190
Exons	466..657, 504..611		

Seq. No.	21563	Seq. ID	OJ990305_10.9819.C23
Gene No.	45073	Strand	+
Start	1	End	1437
Name	OJ990305_10.9819.C23.o1.tw	Method	TBLASTX:Wheat
Start	594	End	1077
GI	none	Score	524
Exons	594..1034, 595..1077, 706..1074		

Seq. No.	21563	Seq. ID	OJ990305_10.9819.C23
Gene No.	45073	Strand	+
Start	1	End	1437
Name	OJ990305_10.9819.C23.o2.ts	Method	TBLASTX:Soybean

Start 631  
 GI none  
 Exons 631..945, 747..944

End 945  
 Score 205

Seq. No. 21563  
 Gene No. 45073  
 Start 1  
 Name OJ990305\_10.9819.C23.o1.tm  
 Start 660  
 GI none  
 Exons 660..902, 664..1107

Seq. ID OJ990305\_10.9819.C23  
 Strand +  
 End 1437  
 Method TBLASTX:Maize  
 End 1107  
 Score 343

Seq. No. 21563  
 Gene No. 45073  
 Start 1  
 Name OJ990305\_10.9819.C23.o1.ts  
 Start 1018  
 GI none  
 Exons 1018..1050, 1018..1050, 1056..1097, 1057..1107, 1153..1365, 1162..1371, 1170..1370

Seq. ID OJ990305\_10.9819.C23  
 Strand +  
 End 1437  
 Method TBLASTX:Soybean  
 End 1371  
 Score 51

Seq. No. 21563  
 Gene No. 45073  
 Start 1  
 Name OJ990305\_10.9819.C23.o2.tw  
 Start 1145  
 GI none  
 Exons 1145..1219, 1165..1371, 1167..1370

Seq. ID OJ990305\_10.9819.C23  
 Strand +  
 End 1437  
 Method TBLASTX:Wheat  
 End 1371  
 Score 56

Seq. No. 21563  
 Gene No. 45073  
 Start 1  
 Name OJ990305\_10.9819.C23.o2.tm  
 Start 1174  
 GI none  
 Exons 1174..1362, 1215..1352

Seq. ID OJ990305\_10.9819.C23  
 Strand +  
 End 1437  
 Method TBLASTX:Maize  
 End 1362  
 Score 206

Seq. No. 21564  
 Gene No. 45074  
 Start 159  
 Name OJ990305\_10.9819.C24.o1.tc  
 Start 153  
 GI none  
 Exons 153..242, 161..244, 163..243, 852..950, 878..952, 878..937, 1045..1167, 1064..1204, 1065..1205

Seq. ID OJ990305\_10.9819.C24  
 Strand +  
 End 1248  
 Method TBLASTX:Cress  
 End 1205  
 Score 60

Seq. No. 21564  
 Gene No. 45074  
 Start 159  
 Name OJ990305\_10.9819.C24.o1.np  
 Start 159  
 GI 1617219  
 Exons 159..244, 879..950, 1068..1248  
 GI Descrip. (X99301) CPD photolyase [Arabidopsis thaliana] gi|2984707 (AF053365) type II CPD photolyase PHR1 [Arabidopsis thaliana]

Seq. ID OJ990305\_10.9819.C24  
 Strand +  
 End 1248  
 Method AAT/NAP  
 End 1248  
 Score 356

Seq. No. 21564

Seq. ID OJ990305\_10.9819.C24

Gene No.	45074	Strand	+
Start	159	End	1248
Name	OJ990305_10.9819.C24.ol.gs	Method	GENSCAN
Start	164	End	1247
GI	none	Score	.91
Exons	164..244, 1068..1247		

Seq. No.	21565	Seq. ID	OJ990305_10.9819.C25
Gene No.	45075	Strand	-
Start	1009	End	1586
Name	OJ990305_10.9819.C25.ol.gs	Method	GENSCAN
Start	1009	End	1586
GI	none	Score	.95
Exons	1009..1179, 1254..1318, 1369..1466, 1558..1586		

Seq. No.	21566	Seq. ID	OJ990305_10.9819.C26
Gene No.	45076	Strand	+
Start	929	End	1163
Name	OJ990305_10.9819.C26.ol.gp	Method	AAT/GAP
Start	929	End	1163
GI	286708	Score	392
Exons	929..1163		

Seq. No.	21567	Seq. ID	OJ990305_10.9819.C27
Gene No.	45077	Strand	-
Start	789	End	4430
Name	OJ990305_10.9819.C27.ol.gs	Method	GENSCAN
Start	789	End	4415
GI	none	Score	.53
Exons	789..959, 1226..1298, 1602..1775, 1850..2850, 3032..3226, 3263..3467, 3895..4415		

Seq. No.	21567	Seq. ID	OJ990305_10.9819.C27
Gene No.	45077	Strand	-
Start	789	End	4430
Name	OJ990305_10.9819.C27.ol.np	Method	AAT/NAP
Start	795	End	4430
GI	4680204	Score	1004
Exons	795..973, 1327..1500, 1602..1775, 1850..2961, 3032..4430		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	21567	Seq. ID	OJ990305_10.9819.C27
Gene No.	45077	Strand	-
Start	789	End	4430
Name	OJ990305_10.9819.C27.ol.tw	Method	TBLASTX:Wheat
Start	2749	End	3431
GI	none	Score	64
Exons	2749..2967, 3029..3127, 3378..3431		

Seq. No.	21568	Seq. ID	OJ990305_10.9819.C30
Gene No.	45078	Strand	+
Start	375	End	1375
Name	OJ990305_10.9819.C30.ol.tm	Method	TBLASTX:Maize
Start	367	End	1345
GI	none	Score	386
Exons	367..804, 380..814, 812..1069, 1072..1203, 1073..1261, 1283..1345		



Seq. No.	21568	Seq. ID	OJ990305_10.9819.C30
Gene No.	45078	Strand	+
Start	375	End	1375
Name	OJ990305_10.9819.C30.o1.gs	Method	GENSCAN
Start	375	End	1375
GI	none	Score	.98
Exons	375..1375		

Seq. No.	21568	Seq. ID	OJ990305_10.9819.C30
Gene No.	45078	Strand	+
Start	375	End	1375
Name	OJ990305_10.9819.C30.o1.np	Method	AAT/NAP
Start	375	End	1354
GI	231805	Score	780
Exons	375..1354		
GI Descrip.	CHALCONE SYNTHASE J (NARINGENIN-CHALCONE SYNTHASE J) gi 20536 emb CAA32737  (X14597) chalcone synthase [Petunia x hybrida]		

Seq. No.	21568	Seq. ID	OJ990305_10.9819.C30
Gene No.	45078	Strand	+
Start	375	End	1375
Name	OJ990305_10.9819.C30.o1.ts	Method	TBLASTX:Soybean
Start	377	End	1345
GI	none	Score	386
Exons	377..814, 379..807, 812..1069, 868..1068, 1072..1203, 1073..1261, 1073..1258, 1283..1345, 1285..1335		

Seq. No.	21568	Seq. ID	OJ990305_10.9819.C30
Gene No.	45078	Strand	+
Start	375	End	1375
Name	OJ990305_10.9819.C30.o1.tc	Method	TBLASTX:Cress
Start	380	End	1345
GI	none	Score	374
Exons	380..814, 382..807, 874..1068, 875..1069, 1072..1203, 1073..1261, 1073..1225, 1283..1345, 1285..1335, 1286..1336		

Seq. No.	21569	Seq. ID	OJ990305_10.9819.C32
Gene No.	45079	Strand	-
Start	1	End	822
Name	OJ990305_10.9819.C32.o1.np	Method	AAT/NAP
Start	1	End	822
GI	4680179	Score	730
Exons	1..822		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	21569	Seq. ID	OJ990305_10.9819.C32
Gene No.	45079	Strand	-
Start	1	End	822
Name	OJ990305_10.9819.C32.o1.tw	Method	TBLASTX:Wheat
Start	140	End	490
GI	none	Score	57
Exons	140..490, 298..423		

Seq. No.	21569	Seq. ID	OJ990305_10.9819.C32
Gene No.	45079	Strand	-

Start	1	End	822
Name	OJ990305_10.9819.C32.o1.tm	Method	TBLASTX:Maize
Start	152	End	490
GI	none	Score	85
Exons	152..490, 281..490		

Seq. No.	21569	Seq. ID	OJ990305_10.9819.C32
Gene No.	45079	Strand	-
Start	1	End	822
Name	OJ990305_10.9819.C32.o2.tw	Method	TBLASTX:Wheat
Start	542	End	740
GI	none	Score	121
Exons	542..739, 543..740		

Seq. No.	21570	Seq. ID	OJ990305_10.9819.C33
Gene No.	45080	Strand	-
Start	222	End	1425
Name	OJ990305_10.9819.C33.o1.gs	Method	GENSCAN
Start	222	End	1425
GI	none	Score	.71
Exons	222..450, 1167..1210, 1318..1425		

Seq. No.	21571	Seq. ID	OJ990305_10.9819.C34
Gene No.	45081	Strand	+
Start	699	End	1329
Name	OJ990305_10.9819.C34.o1.gs	Method	GENSCAN
Start	699	End	1329
GI	none	Score	.71
Exons	699..780, 1157..1329		

Seq. No.	21571	Seq. ID	OJ990305_10.9819.C34
Gene No.	45082	Strand	+
Start	6814	End	7071
Name	OJ990305_10.9819.C34.o2.np	Method	AAT/NAP
Start	6814	End	7071
GI	669088	Score	304
Exons	6814..7071		
GI Descrip.	(X15901) ribosomal protein S12 [Oryza sativa]		

Seq. No.	21571	Seq. ID	OJ990305_10.9819.C34
Gene No.	45083	Strand	-
Start	144	End	9140
Name	OJ990305_10.9819.C34.o1.np	Method	AAT/NAP
Start	144	End	3580
GI	6523547	Score	316
Exons	144..351, 2351..2558, 2744..3580		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		

Seq. No.	21571	Seq. ID	OJ990305_10.9819.C34
Gene No.	45083	Strand	-
Start	144	End	9140
Name	OJ990305_10.9819.C34.o2.gs	Method	GENSCAN
Start	2409	End	7509
GI	none	Score	.52
Exons	2409..2506, 2600..2924, 4484..4648, 4902..4983, 5069..5179, 5267..5504, 5917..6001, 6638..6771, 7132..7271, 7439..7509		

Seq. No.	21571	Seq. ID	OJ990305_10.9819.C34
Gene No.	45083	Strand	-
Start	144	End	9140
Name	OJ990305_10.9819.C34.ol.tm	Method	TBLASTX:Maize
Start	6665	End	7103
GI	none	Score	504
Exons	6665..6916, 6686..7072, 6687..7073, 6687..6923, 6688..7074, 7071..7103		

Seq. No.	21571	Seq. ID	OJ990305_10.9819.C34
Gene No.	45083	Strand	-
Start	144	End	9140
Name	OJ990305_10.9819.C34.ol.tc	Method	TBLASTX:Cress
Start	6687	End	7103
GI	none	Score	42
Exons	6687..6710, 6688..6711, 6688..6714, 6714..6923, 6720..7073, 6721..7074, 7071..7103		

Seq. No.	21571	Seq. ID	OJ990305_10.9819.C34
Gene No.	45083	Strand	-
Start	144	End	9140
Name	OJ990305_10.9819.C34.ol.ts	Method	TBLASTX:Soybean
Start	6714	End	6921
GI	none	Score	283
Exons	6714..6920, 6715..6921, 6724..6921		

Seq. No.	21571	Seq. ID	OJ990305_10.9819.C34
Gene No.	45083	Strand	-
Start	144	End	9140
Name	OJ990305_10.9819.C34.ol.tw	Method	TBLASTX:Wheat
Start	6801	End	7103
GI	none	Score	407
Exons	6801..6923, 6802..7074, 6804..7073, 7071..7103		

Seq. No.	21571	Seq. ID	OJ990305_10.9819.C34
Gene No.	45083	Strand	-
Start	144	End	9140
Name	OJ990305_10.9819.C34.o3.np	Method	AAT/NAP
Start	7072	End	9140
GI	6094106	Score	196
Exons	7072..7284, 9121..9140		
GI Descrip.	MITOCHONDRIAL 60S RIBOSOMAL PROTEIN L2		

Seq. No.	21572	Seq. ID	OJ990305_10.9819.C35
Gene No.	45084	Strand	+
Start	1780	End	4879
Name	OJ990305_10.9819.C35.ol.gs	Method	GENSCAN
Start	1780	End	4790
GI	none	Score	.53
Exons	1780..1830, 2659..2850, 2908..3062, 4310..4790		

Seq. No.	21572	Seq. ID	OJ990305_10.9819.C35
Gene No.	45084	Strand	+
Start	1780	End	4879
Name	OJ990305_10.9819.C35.ol.np	Method	AAT/NAP
Start	4236	End	4879

GI 2689221 Score 394  
Exons 4236..4879  
GI Descrip. (Y10098) 7-ethoxycoumarin O-deethylase [*Helianthus tuberosus*]

Seq. No. 21572 Seq. ID OJ990305\_10.9819.C35  
Gene No. 45084 Strand +  
Start 1780 End 4879  
Name OJ990305\_10.9819.C35.o1.tm Method TBLASTX:Maize  
Start 4301 End 4513  
GI none Score 238  
Exons 4301..4513, 4302..4511

Seq. No. 21572 Seq. ID OJ990305\_10.9819.C35  
Gene No. 45084 Strand +  
Start 1780 End 4879  
Name OJ990305\_10.9819.C35.o1.ts Method TBLASTX:Soybean  
Start 4301 End 4748  
GI none Score 205  
Exons 4301..4486, 4302..4487, 4497..4748

Seq. No. 21572 Seq. ID OJ990305\_10.9819.C35  
Gene No. 45084 Strand +  
Start 1780 End 4879  
Name OJ990305\_10.9819.C35.o1.tw Method TBLASTX:Wheat  
Start 4302 End 4562  
GI none Score 191  
Exons 4302..4547, 4304..4486, 4536..4562

Seq. No. 21572 Seq. ID OJ990305\_10.9819.C35  
Gene No. 45084 Strand +  
Start 1780 End 4879  
Name OJ990305\_10.9819.C35.o1.tc Method TBLASTX:Cress  
Start 4317 End 4820  
GI none Score 125  
Exons 4317..4505, 4367..4486, 4521..4820

Seq. No. 21573 Seq. ID OJ990305\_10.9819.C36  
Gene No. 45085 Strand +  
Start 1548 End 3552  
Name OJ990305\_10.9819.C36.o1.np Method AAT/NAP  
Start 1548 End 3552  
GI 5915833 Score 443  
Exons 1548..2312, 3486..3552  
GI Descrip. CYTOCHROME P450 76C3 gi|2979550|gb|AAC06159.1| (AC003680)  
putative cytochrome P450 [*Arabidopsis thaliana*]

Seq. No. 21573 Seq. ID OJ990305\_10.9819.C36  
Gene No. 45086 Strand -  
Start 2572 End 3406  
Name OJ990305\_10.9819.C36.o2.tm Method TBLASTX:Maize  
Start 1638 End 1876  
GI none Score 202  
Exons 1638..1811, 1664..1876, 1689..1874

Seq. No. 21573 Seq. ID OJ990305\_10.9819.C36  
Gene No. 45086 Strand -  
Start 2572 End 3406

Name	OJ990305_10.9819.C36.o1.tw	Method	TBLASTX:Wheat
Start	1653	End	1925
GI	none	Score	170
Exons	1653..1748, 1661..1849, 1692..1850, 1898..1921, 1899..1925		

Seq. No.	21573	Seq. ID	OJ990305_10.9819.C36
Gene No.	45086	Strand	-
Start	2572	End	3406
Name	OJ990305_10.9819.C36.o1.tc	Method	TBLASTX:Cress
Start	1664	End	2300
GI	none	Score	165
Exons	1664..1837, 1695..1853, 1878..2300, 2037..2285		

Seq. No.	21573	Seq. ID	OJ990305_10.9819.C36
Gene No.	45086	Strand	-
Start	2572	End	3406
Name	OJ990305_10.9819.C36.o1.ts	Method	TBLASTX:Soybean
Start	1664	End	2111
GI	none	Score	188
Exons	1664..1849, 1689..1850, 1859..2110, 1860..2111		

Seq. No.	21573	Seq. ID	OJ990305_10.9819.C36
Gene No.	45086	Strand	-
Start	2572	End	3406
Name	OJ990305_10.9819.C36.o1.tm	Method	TBLASTX:Maize
Start	2031	End	2306
GI	none	Score	122
Exons	2031..2144, 2036..2125, 2136..2306, 2141..2299		

Seq. No.	21573	Seq. ID	OJ990305_10.9819.C36
Gene No.	45086	Strand	-
Start	2572	End	3406
Name	OJ990305_10.9819.C36.o2.gs	Method	GENSCAN
Start	2572	End	3406
GI	none	Score	.7
Exons	2572..2609, 3184..3291, 3313..3406		

Seq. No.	21574	Seq. ID	OJ990305_10.9819.C37
Gene No.	45087	Strand	+
Start	1	End	509
Name	OJ990305_10.9819.C37.o1.np	Method	AAT/NAP
Start	1	End	449
GI	2689221	Score	138
Exons	1..449		
GI Descrip.	(Y10098) 7-ethoxycoumarin O-deethylase [Helianthus tuberosus]		

Seq. No.	21574	Seq. ID	OJ990305_10.9819.C37
Gene No.	45087	Strand	+
Start	1	End	509
Name	OJ990305_10.9819.C37.o1.tm	Method	TBLASTX:Maize
Start	108	End	383
GI	none	Score	92
Exons	108..221, 131..214, 159..383, 218..313		

Seq. No.	21574	Seq. ID	OJ990305_10.9819.C37
Gene No.	45087	Strand	+
Start	1	End	509

Name	OJ990305_10.9819.C37.o1.gs	Method	GENSCAN
Start	186	End	509
GI	none	Score	.73
Exons	186..509		
Seq. No.	21575	Seq. ID	OJ990305_10.9819.C38
Gene No.	45088	Strand	+
Start	1	End	4381
Name	OJ990305_10.9819.C38.o1.np	Method	AAT/NAP
Start	1	End	595
GI	3929333	Score	488
Exons	1..595		
GI Descrip.	CYTOCHROME P450 76B1 (7-ETHOXYCOUMARIN O-DEETHYLASE) (ECOD) (PHENYLUREA DEALKYLASE) gi 2370230 emb CAA71054  (Y09920) 7-ethoxycoumarin O-deethylase [Helianthus tuberosus]		
Seq. No.	21575	Seq. ID	OJ990305_10.9819.C38
Gene No.	45088	Strand	+
Start	1	End	4381
Name	OJ990305_10.9819.C38.o1.gs	Method	GENSCAN
Start	49	End	4381
GI	none	Score	.64
Exons	49..374, 1585..1768, 2365..2494, 3907..4088, 4093..4381		
Seq. No.	21575	Seq. ID	OJ990305_10.9819.C38
Gene No.	45088	Strand	+
Start	1	End	4381
Name	OJ990305_10.9819.C38.o2.np	Method	AAT/NAP
Start	92	End	3886
GI	4455154	Score	75
Exons	92..209, 960..991, 1585..1727, 3719..3886		
GI Descrip.	(AL033545) extensin-like protein [Arabidopsis thaliana]		
Seq. No.	21575	Seq. ID	OJ990305_10.9819.C38
Gene No.	45089	Strand	-
Start	4949	End	5912
Name	OJ990305_10.9819.C38.o1.tm	Method	TBLASTX:Maize
Start	57	End	517
GI	none	Score	71
Exons	57..197, 59..352, 61..351, 356..517, 358..471		
Seq. No.	21575	Seq. ID	OJ990305_10.9819.C38
Gene No.	45089	Strand	-
Start	4949	End	5912
Name	OJ990305_10.9819.C38.o1.tc	Method	TBLASTX:Cress
Start	58	End	520
GI	none	Score	463
Exons	58..450, 59..520		
Seq. No.	21575	Seq. ID	OJ990305_10.9819.C38
Gene No.	45089	Strand	-
Start	4949	End	5912
Name	OJ990305_10.9819.C38.o1.ts	Method	TBLASTX:Soybean
Start	77	End	571
GI	none	Score	465
Exons	77..571, 79..444		

Seq. No.	21575	Seq. ID	OJ990305_10.9819.C38
Gene No.	45089	Strand	-
Start	4949	End	5912
Name	OJ990305_10.9819.C38.o1.tw	Method	TBLASTX:Wheat
Start	251	End	559
GI	none	Score	106
Exons	251..355, 271..354, 358..450, 359..517, 515..559		

Seq. No.	21575	Seq. ID	OJ990305_10.9819.C38
Gene No.	45089	Strand	-
Start	4949	End	5912
Name	OJ990305_10.9819.C38.o1.gp	Method	AAT/GAP
Start	4683	End	5846
GI	426_2.R1084	Score	1035
Exons	4683..5029, 5327..5383, 5495..5546, 5637..5725, 5806..5846		
GI Descrip.	'2661039 5.0e-49 (AF035286) alpha enolase [Homo sapiens]'		

Seq. No.	21575	Seq. ID	OJ990305_10.9819.C38
Gene No.	45089	Strand	-
Start	4949	End	5912
Name	OJ990305_10.9819.C38.o2.tm	Method	TBLASTX:Maize
Start	4940	End	5847
GI	none	Score	70
Exons	4940..4999, 4946..5038, 5319..5399, 5319..5384, 5327..5407, 5327..5392, 5494..5547, 5495..5563, 5495..5548, 5637..5726, 5639..5728, 5639..5728, 5803..5847, 5804..5845, 5806..5847		

Seq. No.	21575	Seq. ID	OJ990305_10.9819.C38
Gene No.	45089	Strand	-
Start	4949	End	5912
Name	OJ990305_10.9819.C38.o2.tc	Method	TBLASTX:Cress
Start	4947	End	5847
GI	none	Score	87
Exons	4947..5018, 4949..5038, 5325..5399, 5327..5392, 5495..5548, 5496..5549, 5637..5726, 5637..5726, 5639..5728, 5641..5751, 5642..5734, 5790..5846, 5803..5847, 5805..5846, 5806..5847		

Seq. No.	21575	Seq. ID	OJ990305_10.9819.C38
Gene No.	45089	Strand	-
Start	4949	End	5912
Name	OJ990305_10.9819.C38.o2.gs	Method	GENSCAN
Start	4949	End	5725
GI	none	Score	.75
Exons	4949..5029, 5495..5546, 5637..5725		

Seq. No.	21575	Seq. ID	OJ990305_10.9819.C38
Gene No.	45089	Strand	-
Start	4949	End	5912
Name	OJ990305_10.9819.C38.o2.ts	Method	TBLASTX:Soybean
Start	4949	End	5849
GI	none	Score	66
Exons	4949..5038, 4952..5005, 5319..5402, 5327..5392, 5495..5548, 5496..5549, 5504..5563, 5637..5726, 5637..5726, 5639..5728, 5639..5728, 5803..5844, 5803..5847, 5804..5848, 5805..5849		

Seq. No.	21575	Seq. ID	OJ990305_10.9819.C38
Gene No.	45089	Strand	-

Start	4949	End	5912
Name	OJ990305_10.9819.C38.o3.np	Method	AAT/NAP
Start	4952	End	5912
GI	3023713	Score	386
Exons	4952..5029, 5327..5383, 5495..5546, 5637..5725, 5806..5912		
GI Descrip.	ENOLASE (2-PHOSPHOGLYCERATE DEHYDRATASE) (2-PHOSPHO-D-GLYCERATE HYDRO-LYASE) (OSE1) gi 780372 (U09450) enolase [Oryza sativa]		

Seq. No.	21576	Seq. ID	OJ990305_10.9819.C39
Gene No.	45090	Strand	-
Start	1	End	3311
Name	OJ990305_10.9819.C39.o1.np	Method	AAT/NAP
Start	1	End	2810
GI	3023713	Score	928
Exons	1..45, 100..166, 394..468, 544..624, 701..802, 891..971, 1070..1156, 1236..1283, 1837..1901, 2023..2086, 2742..2810		
GI Descrip.	ENOLASE (2-PHOSPHOGLYCERATE DEHYDRATASE) (2-PHOSPHO-D-GLYCERATE HYDRO-LYASE) (OSE1) gi 780372 (U09450) enolase [Oryza sativa]		

Seq. No.	21576	Seq. ID	OJ990305_10.9819.C39
Gene No.	45090	Strand	-
Start	1	End	3311
Name	OJ990305_10.9819.C39.o1.gp	Method	AAT/GAP
Start	100	End	2919
GI	426_1.R1084	Score	1466
Exons	100..166, 394..468, 544..624, 701..802, 891..971, 1070..1156, 1236..1283, 1837..1901, 2023..2086, 2742..2919		
GI Descrip.	'3023713/sp Q42971 ENO ORYSA 0.0e+00 ENOLASE (2-PHOSPHOGLYCERATE DEHYDRATASE) (2-PHOSPHO-D-GLYCERATE HYDRO-LYASE) (OSE1) >gi_780372 (U09450) enolase [Oryza sativa]'		

Seq. No.	21576	Seq. ID	OJ990305_10.9819.C39
Gene No.	45090	Strand	-
Start	1	End	3311
Name	OJ990305_10.9819.C39.o1.tc	Method	TBLASTX:Cress
Start	101	End	2805
GI	none	Score	65
Exons	101..172, 102..167, 362..469, 392..469, 394..474, 523..630, 545..628, 546..629, 561..638, 693..803, 699..803, 700..804, 701..805, 891..974, 895..972, 1058..1192, 1068..1157, 1070..1168, 1235..1285, 1236..1286, 1834..1902, 1837..1908, 1838..1909, 2021..2089, 2022..2087, 2734..2805, 2739..2804		

Seq. No.	21576	Seq. ID	OJ990305_10.9819.C39
Gene No.	45090	Strand	-
Start	1	End	3311
Name	OJ990305_10.9819.C39.o1.ts	Method	TBLASTX:Soybean
Start	101	End	2805
GI	none	Score	102
Exons	101..169, 392..469, 394..477, 398..469, 523..633, 545..613, 665..805, 693..803, 700..813, 701..838, 891..974, 898..972, 1058..1159, 1068..1157, 1235..1285, 1236..1286, 1837..1908, 1841..1909, 2021..2089, 2022..2087, 2739..2804, 2740..2805		

Seq. No.	21576	Seq. ID	OJ990305_10.9819.C39
Gene No.	45090	Strand	-
Start	1	End	3311



Name	OJ990305_10.9819.C39.o1.tm	Method	TBLASTX:Maize
Start	101	End	2810
GI	none	Score	78
Exons	101..199, 101..172, 392..469, 394..474, 398..469, 523..630, 545..628, 561..638, 693..803, 699..803, 700..804, 701..805, 701..805, 892..972, 892..972, 1057..1158, 1058..1159, 1068..1157, 1070..1159, 1075..1164, 1234..1284, 1234..1284, 1236..1286, 1236..1286, 1796..1900, 1833..1901, 1834..1902, 1837..1908, 1838..1909, 2016..2087, 2020..2088, 2021..2089, 2022..2087, 2739..2810, 2740..2808		

Seq. No.	21576	Seq. ID	OJ990305_10.9819.C39
Gene No.	45090	Strand	-
Start	1	End	3311
Name	OJ990305_10.9819.C39.o1.gs	Method	GENSCAN
Start	394	End	3311
GI	none	Score	.5
Exons	394..468, 544..624, 698..802, 891..971, 1070..1156, 1236..1283, 1837..1901, 2023..2114, 2228..2418, 2742..2839, 2974..3311		

Seq. No.	21576	Seq. ID	OJ990305_10.9819.C39
Gene No.	45090	Strand	-
Start	1	End	3311
Name	OJ990305_10.9819.C39.o1.tw	Method	TBLASTX:Wheat
Start	535	End	1103
GI	none	Score	143
Exons	535..630, 545..628, 546..629, 558..638, 693..803, 699..803, 700..804, 701..805, 891..974, 892..972, 893..973, 1067..1102, 1068..1103		

Seq. No.	21576	Seq. ID	OJ990305_10.9819.C39
Gene No.	45090	Strand	-
Start	1	End	3311
Name	OJ990305_10.9819.C39.o2.tw	Method	TBLASTX:Wheat
Start	1103	End	3213
GI	none	Score	60
Exons	1103..1159, 1104..1157, 1106..1159, 1234..1284, 1234..1284, 1235..1285, 1236..1286, 1405..1452, 1833..1901, 1835..1900, 1836..1901, 1837..1908, 1838..1909, 2021..2089, 2022..2087, 2739..2810, 2740..2808, 2740..2820, 2741..2812, 3109..3213		

Seq. No.	21577	Seq. ID	OJ990305_10.9819.C43
Gene No.	45091	Strand	+
Start	189	End	335
Name	OJ990305_10.9819.C43.o1.ts	Method	TBLASTX:Soybean
Start	90	End	260
GI	none	Score	93
Exons	90..260, 133..258		

Seq. No.	21577	Seq. ID	OJ990305_10.9819.C43
Gene No.	45091	Strand	+
Start	189	End	335
Name	OJ990305_10.9819.C43.o1.tc	Method	TBLASTX:Cress
Start	93	End	335
GI	none	Score	77
Exons	93..335, 118..279		

Seq. No.	21577	Seq. ID	OJ990305_10.9819.C43
Gene No.	45091	Strand	+
Start	189	End	335
Name	OJ990305_10.9819.C43.o1.gs	Method	GENSCAN
Start	189	End	293
GI	none	Score	.66
Exons	189..293		

Seq. No.	21578	Seq. ID	OJ990305_10.9819.C44
Gene No.	45092	Strand	+
Start	237	End	3902
Name	OJ990305_10.9819.C44.o1.gs	Method	GENSCAN
Start	237	End	2181
GI	none	Score	.88
Exons	237..301, 949..1024, 1723..2181		

Seq. No.	21578	Seq. ID	OJ990305_10.9819.C44
Gene No.	45092	Strand	+
Start	237	End	3902
Name	OJ990305_10.9819.C44.o2.np	Method	AAT/NAP
Start	1789	End	3902
GI	5042448	Score	801
Exons	1789..2276, 3632..3902		
GI Descrip.	(AC007789) putative ORF0 protein of RIRE8B gypsy-type retrotransposon [Oryza sativa]		

Seq. No.	21578	Seq. ID	OJ990305_10.9819.C44
Gene No.	45092	Strand	+
Start	237	End	3902
Name	OJ990305_10.9819.C44.o2.gs	Method	GENSCAN
Start	3697	End	3861
GI	none	Score	.72
Exons	3697..3861		

Seq. No.	21578	Seq. ID	OJ990305_10.9819.C44
Gene No.	45093	Strand	-
Start	247	End	3902
Name	OJ990305_10.9819.C44.o1.np	Method	AAT/NAP
Start	247	End	3902
GI	4680183	Score	189
Exons	247..336, 944..1014, 3858..3902		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	21579	Seq. ID	OJ990305_10.9819.C45
Gene No.	45094	Strand	+
Start	1305	End	5404
Name	OJ990305_10.9819.C45.o1.gs	Method	GENSCAN
Start	1305	End	5404
GI	none	Score	.83
Exons	1305..1688, 1791..1865, 2204..2413, 2523..2835, 3094..3232, 3674..3723, 4664..4722, 5273..5404		

Seq. No.	21579	Seq. ID	OJ990305_10.9819.C45
Gene No.	45094	Strand	+
Start	1305	End	5404
Name	OJ990305_10.9819.C45.o1.tw	Method	TBLASTX:Wheat
Start	2198	End	3189

GI none Score 216  
Exons 2198..2302, 2202..2402, 2204..2389, 2505..2675, 2517..2672,  
2664..2798, 2677..2799, 2686..2793, 3076..3189

Seq. No. 21580 Seq. ID OJ990305\_10.9819.C46  
Gene No. 45095 Strand -  
Start 102 End 706  
Name OJ990305\_10.9819.C46.ol.np Method AAT/NAP  
Start 102 End 706  
GI 2126090 Score 1022  
Exons 102..706

GI Descrip. transposase (insertion sequence IS10) - Escherichia coli  
gi|455676|bbs|140379 (S67119) transposase [Escherichia coli,  
LBB84, plasmid pXT107, IS10L/R-1, Peptide  
PlasmidTransposonInsertionMutant, 402 aa] [Escherichia coli]  
gi|6634720|gb|AAF19728.1|AC012463\_2 (AC012463) T2E6.2  
[Arabidopsis thaliana]

Seq. No. 21581 Seq. ID OJ990305\_10.9819.C48  
Gene No. 45096 Strand +  
Start 1 End 1770  
Name OJ990305\_10.9819.C48.ol.np Method AAT/NAP  
Start 1 End 1770  
GI 3023713 Score 921  
Exons 1..248, 324..398, 626..688, 788..868, 985..1179, 1263..1313,  
1394..1482, 1573..1770  
GI Descrip. ENOLASE (2-PHOSPHOGLYCERATE DEHYDRATASE) (2-PHOSPHO-D-GLYCERATE  
HYDRO-LYASE) (OSE1) gi|780372 (U09450) enolase [Oryza sativa]

Seq. No. 21581 Seq. ID OJ990305\_10.9819.C48  
Gene No. 45096 Strand +  
Start 1 End 1770  
Name OJ990305\_10.9819.C48.ol.tm Method TBLASTX:Maize  
Start 154 End 1625  
GI none Score 74  
Exons 154..231, 162..269, 164..247, 165..254, 318..398, 323..400,  
323..394, 592..690, 620..697, 625..690, 785..868, 786..875,  
788..868, 972..1187, 985..1179, 1242..1316, 1262..1315,  
1391..1480, 1391..1480, 1393..1482, 1556..1624, 1571..1624,  
1572..1625

Seq. No. 21581 Seq. ID OJ990305\_10.9819.C48  
Gene No. 45096 Strand +  
Start 1 End 1770  
Name OJ990305\_10.9819.C48.ol.ts Method TBLASTX:Soybean  
Start 162 End 1624  
GI none Score 50  
Exons 162..209, 164..199, 188..247, 207..269, 210..248, 315..389,  
323..367, 332..394, 369..398, 374..400, 620..697, 625..690,  
788..829, 790..828, 812..868, 972..1178, 982..1239, 985..1176,  
1242..1316, 1261..1314, 1391..1480, 1391..1477, 1393..1482,  
1393..1482, 1570..1623, 1571..1624

Seq. No. 21581 Seq. ID OJ990305\_10.9819.C48  
Gene No. 45096 Strand +  
Start 1 End 1770  
Name OJ990305\_10.9819.C48.ol.gp Method AAT/GAP

Start 163 End 1631  
 GI 426\_1.R1084 Score 1195  
 Exons 163..248, 324..398, 626..688, 788..868, 985..1179, 1263..1313, 1394..1482, 1573..1631  
 GI Descrip. '3023713/sp|Q42971|ENO ORYSA 0.0e+00 ENOLASE (2-PHOSPHOGLYCERATE DEHYDRATASE) (2-PHOSPHO-D-GLYCERATE HYDRO-LYASE) (OSE1) >gi\_780372 (U09450) enolase [Oryza sativa]'

Seq. No. 21581 Seq. ID OJ990305\_10.9819.C48  
 Gene No. 45096 Strand +  
 Start 1 End 1770  
 Name OJ990305\_10.9819.C48.ol.gs Method GENSCAN  
 Start 168 End 1624  
 GI none Score .92  
 Exons 168..248, 324..398, 626..688, 788..868, 985..1179, 1263..1313, 1394..1482, 1573..1624

Seq. No. 21581 Seq. ID OJ990305\_10.9819.C48  
 Gene No. 45096 Strand +  
 Start 1 End 1770  
 Name OJ990305\_10.9819.C48.ol.tc Method TBLASTX:Cress  
 Start 191 End 1624  
 GI none Score 97  
 Exons 191..247, 192..269, 318..398, 323..400, 323..430, 592..690, 620..697, 625..690, 734..826, 787..825, 812..868, 982..1173, 985..1176, 1242..1316, 1262..1315, 1273..1329, 1368..1478, 1385..1477, 1391..1480, 1393..1482, 1393..1482, 1570..1623, 1571..1624

Seq. No. 21581 Seq. ID OJ990305\_10.9819.C48  
 Gene No. 45096 Strand +  
 Start 1 End 1770  
 Name OJ990305\_10.9819.C48.ol.tw Method TBLASTX:Wheat  
 Start 1003 End 1470  
 GI none Score 279  
 Exons 1003..1179, 1004..1177, 1005..1190, 1006..1191, 1242..1316, 1262..1315, 1270..1344, 1389..1463, 1391..1468, 1393..1470, 1393..1470

Seq. No. 21582 Seq. ID OJ990305\_10.9819.C49  
 Gene No. 45097 Strand +  
 Start 135 End 227  
 Name OJ990305\_10.9819.C49.ol.gs Method GENSCAN  
 Start 135 End 227  
 GI none Score .98  
 Exons 135..227

Seq. No. 21583 Seq. ID OJ990305\_12.9819.C2  
 Gene No. 45098 Strand +  
 Start 1 End 1769  
 Name OJ990305\_12.9819.C2.ol.np Method AAT/NAP  
 Start 1 End 1769  
 GI 5739323 Score 724  
 Exons 1..603, 685..1143, 1291..1769  
 GI Descrip. (AF166121) Cf2/Cf5 disease resistance protein homolog [Hordeum vulgare]

Seq. No.	21583	Seq. ID	OJ990305_12.9819.C2
Gene No.	45098	Strand	+
Start	1	End	1769
Name	OJ990305_12.9819.C2.ol.tc	Method	TBLASTX:Cress
Start	82	End	1709
GI	none	Score	81
Exons	82..216, 85..216, 85..213, 85..216, 499..609, 502..612, 520..609, 728..766, 808..972, 817..993, 820..1002, 823..999, 823..1002, 823..999, 823..1017, 823..1065, 826..999, 832..1014, 843..953, 850..999, 886..1020, 1003..1065, 1006..1149, 1006..1071, 1006..1161, 1054..1155, 1054..1149, 1072..1155, 1075..1149, 1075..1149, 1075..1149, 1388..1456, 1476..1517, 1527..1586, 1527..1589, 1527..1592, 1533..1709, 1596..1709, 1599..1709		

Seq. No.	21583	Seq. ID	OJ990305_12.9819.C2
Gene No.	45098	Strand	+
Start	1	End	1769
Name	OJ990305_12.9819.C2.ol.ts	Method	TBLASTX:Soybean
Start	1096	End	1458
GI	none	Score	216
Exons	1096..1458		

Seq. No.	21584	Seq. ID	OJ990305_12.9819.C3
Gene No.	45099	Strand	+
Start	1	End	3253
Name	OJ990305_12.9819.C3.ol.np	Method	AAT/NAP
Start	1	End	3253
GI	5739323	Score	1551
Exons	1..37, 179..290, 354..441, 1278..3253		
GI Descrip.	(AF166121) Cf2/Cf5 disease resistance protein homolog [Hordeum vulgare]		

Seq. No.	21584	Seq. ID	OJ990305_12.9819.C3
Gene No.	45099	Strand	+
Start	1	End	3253
Name	OJ990305_12.9819.C3.ol.tm	Method	TBLASTX:Maize
Start	133	End	2959
GI	none	Score	222
Exons	133..369, 134..478, 138..461, 241..480, 1931..2005, 1943..2023, 2099..2209, 2105..2209, 2267..2425, 2267..2494, 2650..2955, 2651..2770, 2654..2959		

Seq. No.	21584	Seq. ID	OJ990305_12.9819.C3
Gene No.	45099	Strand	+
Start	1	End	3253
Name	OJ990305_12.9819.C3.ol.tw	Method	TBLASTX:Wheat
Start	138	End	2995
GI	none	Score	186
Exons	138..446, 139..465, 478..522, 2090..2212, 2303..2527, 2303..2422, 2651..2938, 2951..2995		

Seq. No.	21584	Seq. ID	OJ990305_12.9819.C3
Gene No.	45099	Strand	+
Start	1	End	3253
Name	OJ990305_12.9819.C3.ol.tc	Method	TBLASTX:Cress
Start	175	End	2950

GI	none	Score	147
Exons	175..369, 178..369, 178..369, 184..372, 184..369, 187..348, 187..366, 187..369, 193..444, 207..296, 208..456, 357..452, 1499..1780, 1792..1950, 1931..2005, 2090..2206, 2090..2209, 2105..2209, 2105..2212, 2114..2209, 2114..2212, 2267..2371, 2267..2524, 2303..2527, 2639..2917, 2660..2779, 2660..2920, 2660..2917, 2660..2842, 2681..2950, 2714..2899, 2758..2913, 2758..2913		

Seq. No.	21584	Seq. ID	OJ990305_12.9819.C3
Gene No.	45099	Strand	+
Start	1	End	3253
Name	OJ990305_12.9819.C3.ol.ts	Method	TBLASTX:Soybean
Start	178	End	2998
GI	none	Score	121
Exons	178..369, 178..306, 178..369, 193..369, 247..459, 2087..2209, 2102..2209, 2153..2218, 2267..2443, 2312..2425, 2318..2539, 2363..2503, 2384..2503, 2645..2770, 2660..2842, 2666..2842, 2720..2950, 2969..2998		

Seq. No.	21585	Seq. ID	OJ990305_12.9819.C7
Gene No.	45100	Strand	-
Start	184	End	411
Name	OJ990305_12.9819.C7.ol.np	Method	AAT/NAP
Start	184	End	411
GI	1072669	Score	407
Exons	184..411		
GI Descrip.	hypothetical protein - phage phi-80 gi 461350 emb CAA53547  (X75949) ORF x171.8 [Bacteriophage phi-80]		

Seq. No.	21586	Seq. ID	OJ990305_12.9819.C8
Gene No.	45101	Strand	-
Start	276	End	646
Name	OJ990305_12.9819.C8.ol.tm	Method	TBLASTX:Maize
Start	261	End	619
GI	none	Score	141
Exons	261..362, 263..364, 269..415, 482..619, 486..560, 488..619		

Seq. No.	21586	Seq. ID	OJ990305_12.9819.C8
Gene No.	45101	Strand	-
Start	276	End	646
Name	OJ990305_12.9819.C8.ol.gs	Method	GENSCAN
Start	276	End	646
GI	none	Score	.91
Exons	276..355, 491..646		

Seq. No.	21587	Seq. ID	OJ990305_12.9819.C9
Gene No.	45102	Strand	-
Start	1	End	728
Name	OJ990305_12.9819.C9.ol.np	Method	AAT/NAP
Start	1	End	728
GI	5902445	Score	769
Exons	1..728		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	21587	Seq. ID	OJ990305_12.9819.C9
Gene No.	45102	Strand	-

Start 1  
 Name OJ990305\_12.9819.C9.o1.tm  
 Start 63  
 GI none  
 Exons 63..440, 76..441

End 728  
 Method TBLASTX:Maize  
 End 441  
 Score 221

Seq. No. 21587  
 Gene No. 45102  
 Start 1  
 Name OJ990305\_12.9819.C9.o1.ts  
 Start 171  
 GI none  
 Exons 171..395, 172..387

Seq. ID OJ990305\_12.9819.C9  
 Strand -  
 End 728  
 Method TBLASTX:Soybean  
 End 395  
 Score 83

Seq. No. 21587  
 Gene No. 45102  
 Start 1  
 Name OJ990305\_12.9819.C9.o1.tw  
 Start 180  
 GI none  
 Exons 180..599, 193..597

Seq. ID OJ990305\_12.9819.C9  
 Strand -  
 End 728  
 Method TBLASTX:Wheat  
 End 599  
 Score 251

Seq. No. 21587  
 Gene No. 45102  
 Start 1  
 Name OJ990305\_12.9819.C9.o2.tm  
 Start 468  
 GI none  
 Exons 468..584, 468..728, 478..690

Seq. ID OJ990305\_12.9819.C9  
 Strand -  
 End 728  
 Method TBLASTX:Maize  
 End 728  
 Score 72

Seq. No. 21587  
 Gene No. 45102  
 Start 1  
 Name OJ990305\_12.9819.C9.o2.tw  
 Start 599  
 GI none  
 Exons 599..727, 600..728, 600..728

Seq. ID OJ990305\_12.9819.C9  
 Strand -  
 End 728  
 Method TBLASTX:Wheat  
 End 728  
 Score 85

Seq. No. 21588  
 Gene No. 45103  
 Start 533  
 Name OJ990305\_12.9819.C14.o1.gs  
 Start 533  
 GI none  
 Exons 533..655

Seq. ID OJ990305\_12.9819.C14  
 Strand +  
 End 655  
 Method GENSCAN  
 End 655  
 Score .61

Seq. No. 21589  
 Gene No. 45104  
 Start 1  
 Name OJ990305\_12.9819.C15.o1.np  
 Start 1  
 GI 1711511  
 Exons 1..208, 303..757

Seq. ID OJ990305\_12.9819.C15  
 Strand +  
 End 757  
 Method AAT/NAP  
 End 757  
 Score 414

GI Descrip. SIGNAL RECOGNITION PARTICLE 54 KD PROTEIN 2 (SRP54) gi|1020002  
 (L48285) signal recognition particle 54 kDa subunit [Hordeum  
 vulgare]

Seq. No.	21589	Seq. ID	OJ990305_12.9819.C15
Gene No.	45104	Strand	+
Start	1	End	757
Name	OJ990305_12.9819.C15.o1.tc	Method	TBLASTX:Cress
Start	40	End	455
GI	none	Score	227
Exons	40..210, 56..208, 57..212, 127..210, 303..455, 303..449		

Seq. No.	21589	Seq. ID	OJ990305_12.9819.C15
Gene No.	45104	Strand	+
Start	1	End	757
Name	OJ990305_12.9819.C15.o1.tm	Method	TBLASTX:Maize
Start	40	End	455
GI	none	Score	237
Exons	40..207, 56..208, 301..372, 303..455, 303..452		

Seq. No.	21589	Seq. ID	OJ990305_12.9819.C15
Gene No.	45104	Strand	+
Start	1	End	757
Name	OJ990305_12.9819.C15.o1.ts	Method	TBLASTX:Soybean
Start	55	End	455
GI	none	Score	233
Exons	55..207, 56..208, 56..211, 126..212, 301..447, 302..343, 303..455, 303..446		

Seq. No.	21589	Seq. ID	OJ990305_12.9819.C15
Gene No.	45104	Strand	+
Start	1	End	757
Name	OJ990305_12.9819.C15.o1.gs	Method	GENSCAN
Start	58	End	438
GI	none	Score	.61
Exons	58..208, 303..438		

Seq. No.	21590	Seq. ID	OJ990305_12.9819.C16
Gene No.	45105	Strand	-
Start	1	End	654
Name	OJ990305_12.9819.C16.o1.np	Method	AAT/NAP
Start	1	End	654
GI	5903096	Score	50
Exons	1..98, 457..654		
GI Descrip.	(AC008017) Highly similar to receptor-like protein kinase [Arabidopsis thaliana]		

Seq. No.	21590	Seq. ID	OJ990305_12.9819.C16
Gene No.	45106	Strand	-
Start	782	End	802
Name	OJ990305_12.9819.C16.o1.gs	Method	GENSCAN
Start	782	End	802
GI	none	Score	.87
Exons	782..802		

Seq. No.	21591	Seq. ID	OJ990305_12.9819.C18
Gene No.	45107	Strand	-
Start	1	End	757
Name	OJ990305_12.9819.C18.o1.np	Method	AAT/NAP
Start	1	End	757
GI	4263702	Score	283



Exons	1..27, 178..294, 397..463, 549..613, 690..757		
GI Descrip.	(AC006223) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	21591	Seq. ID	OJ990305_12.9819.C18
Gene No.	45107	Strand	-
Start	1	End	757
Name	OJ990305_12.9819.C18.o1.ts	Method	TBLASTX:Soybean
Start	136	End	616
GI	none	Score	41
Exons	136..276, 154..213, 183..293, 194..277, 194..301, 397..483, 399..464, 547..612, 548..616, 569..616		
Seq. No.	21591	Seq. ID	OJ990305_12.9819.C18
Gene No.	45107	Strand	-
Start	1	End	757
Name	OJ990305_12.9819.C18.o1.tm	Method	TBLASTX:Maize
Start	169	End	622
GI	none	Score	86
Exons	169..288, 173..295, 182..289, 183..293, 397..483, 399..464, 547..615, 548..622		
Seq. No.	21591	Seq. ID	OJ990305_12.9819.C18
Gene No.	45107	Strand	-
Start	1	End	757
Name	OJ990305_12.9819.C18.o1.gp	Method	AAT/GAP
Start	181	End	487
GI	LIB3433-016-Q6-K6-E9	Score	291
Exons	181..294, 397..487		
GI Descrip.	'4263702/gb AAD15388  2.0e-62 (AC006223) hypothetical protein [Arabidopsis thaliana]'		
Seq. No.	21592	Seq. ID	OJ990305_12.9819.C19
Gene No.	45108	Strand	+
Start	241	End	385
Name	OJ990305_12.9819.C19.o1.gs	Method	GENSCAN
Start	241	End	385
GI	none	Score	.73
Exons	241..385		
Seq. No.	21592	Seq. ID	OJ990305_12.9819.C19
Gene No.	45109	Strand	-
Start	1776	End	4908
Name	OJ990305_12.9819.C19.o1.gp	Method	AAT/GAP
Start	1054	End	2237
GI	none	Score	943
Exons	1054..1500, 2171..2237		
Seq. No.	21592	Seq. ID	OJ990305_12.9819.C19
Gene No.	45109	Strand	-
Start	1776	End	4908
Name	OJ990305_12.9819.C19.o1.np	Method	AAT/NAP
Start	1444	End	4908
GI	4263702	Score	688
Exons	1444..1500, 2171..2224, 2477..2545, 2659..2718, 2880..2977, 3851..3990, 4476..4589, 4692..4758, 4844..4908		
GI Descrip.	(AC006223) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	21592	Seq. ID	OJ990305_12.9819.C19
Gene No.	45109	Strand	-
Start	1776	End	4908
Name	OJ990305_12.9819.C19.o2.gs	Method	GENSCAN
Start	1776	End	4521
GI	none	Score	.6
Exons	1776..1889, 2171..2224, 2477..2545, 2880..2977, 3851..4027, 4476..4521		

Seq. No.	21592	Seq. ID	OJ990305_12.9819.C19
Gene No.	45109	Strand	-
Start	1776	End	4908
Name	OJ990305_12.9819.C19.o2.gp	Method	AAT/GAP
Start	2659	End	4782
GI	LIB3433-016-Q6-K6-E9	Score	728
Exons	2659..2718, 2880..2977, 3851..3924, 4476..4589, 4692..4782		
GI Descrip.	'4263702/gb AAD15388  2.0e-62 (AC006223) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	21592	Seq. ID	OJ990305_12.9819.C19
Gene No.	45110	Strand	-
Start	5050	End	5358
Name	OJ990305_12.9819.C19.o1.tm	Method	TBLASTX:Maize
Start	767	End	4917
GI	none	Score	67
Exons	767..841, 1402..1503, 1402..1506, 1445..1504, 2171..2227, 2171..2227, 2172..2237, 2474..2548, 2474..2545, 2476..2565, 2476..2568, 2643..2717, 2650..2718, 2654..2719, 2877..2978, 2878..2973, 3852..3917, 3852..3926, 3889..3927, 4464..4583, 4468..4590, 4477..4584, 4478..4588, 4692..4778, 4694..4759, 4842..4913, 4842..4910, 4843..4917		

Seq. No.	21592	Seq. ID	OJ990305_12.9819.C19
Gene No.	45110	Strand	-
Start	5050	End	5358
Name	OJ990305_12.9819.C19.o1.ts	Method	TBLASTX:Soybean
Start	2477	End	4911
GI	none	Score	71
Exons	2477..2554, 2477..2545, 2650..2718, 2658..2717, 2857..2973, 2877..2975, 2878..2973, 3849..3911, 3855..3926, 3889..3930, 4431..4571, 4449..4508, 4478..4588, 4489..4572, 4489..4596, 4692..4778, 4694..4759, 4842..4907, 4843..4911, 4855..4911		

Seq. No.	21592	Seq. ID	OJ990305_12.9819.C19
Gene No.	45110	Strand	-
Start	5050	End	5358
Name	OJ990305_12.9819.C19.o3.gs	Method	GENSCAN
Start	5050	End	5358
GI	none	Score	.97
Exons	5050..5358		

Seq. No.	21593	Seq. ID	OJ990305_12.9819.C20
Gene No.	45111	Strand	-
Start	745	End	2777
Name	OJ990305_12.9819.C20.o1.gs	Method	GENSCAN
Start	745	End	2773
GI	none	Score	.78

Exons 745..810, 1256..1411, 1802..2026, 2140..2182, 2507..2550,  
2701..2773

Seq. No.	21593	Seq. ID	OJ990305_12.9819.C20
Gene No.	45111	Strand	-
Start	745	End	2777
Name	OJ990305_12.9819.C20.ol.tm	Method	TBLASTX:Maize
Start	1808	End	2777
GI	none	Score	38
Exons	1808..1852, 1847..2035, 1849..2028, 1866..2066, 2140..2184, 2140..2181, 2504..2548, 2506..2550, 2701..2763, 2701..2775, 2703..2777		

Seq. No.	21593	Seq. ID	OJ990305_12.9819.C20
Gene No.	45111	Strand	-
Start	745	End	2777
Name	OJ990305_12.9819.C20.ol.gp	Method	AAT/GAP
Start	1829	End	2773
GI	none	Score	612
Exons	1829..2026, 2140..2182, 2507..2550, 2701..2773		

Seq. No.	21594	Seq. ID	OJ990305_12.9819.C21
Gene No.	45112	Strand	-
Start	1727	End	1911
Name	OJ990305_12.9819.C21.ol.gp	Method	AAT/GAP
Start	1727	End	1911
GI	none	Score	275
Exons	1727..1911		

Seq. No.	21594	Seq. ID	OJ990305_12.9819.C21
Gene No.	45112	Strand	-
Start	1727	End	1911
Name	OJ990305_12.9819.C21.ol.gs	Method	GENSCAN
Start	1731	End	1810
GI	none	Score	.96
Exons	1731..1810		

Seq. No.	21595	Seq. ID	OJ990305_12.9819.C22
Gene No.	45113	Strand	+
Start	640	End	1058
Name	OJ990305_12.9819.C22.ol.gp	Method	AAT/GAP
Start	640	End	1058
GI	50781_1.R1084	Score	834
Exons	640..1058		
GI Descrip.	'5902368/gb AAD55470.1 AC009322_10 9.0e-09 (AC009322) Unknown protein [Arabidopsis thaliana]'		

Seq. No.	21595	Seq. ID	OJ990305_12.9819.C22
Gene No.	45114	Strand	-
Start	795	End	861
Name	OJ990305_12.9819.C22.ol.gs	Method	GENSCAN
Start	795	End	861
GI	none	Score	.62
Exons	795..861		

Seq. No.	21595	Seq. ID	OJ990305_12.9819.C22
Gene No.	45115	Strand	

Start	890	End	1136
Name	OJ990305_12.9819.C22.o1.tm	Method	TBLASTX:Maize
Start	890	End	1136
GI	none	Score	67
Exons	890..946, 891..986, 957..1001, 960..1076, 963..1076, 995..1087, 1001..1078, 1077..1136, 1083..1130		

Seq. No.	21596	Seq. ID	OJ990305_12.9819.C23
Gene No.	45116	Strand	+
Start	2310	End	2593
Name	OJ990305_12.9819.C23.o1.np	Method	AAT/NAP
Start	2310	End	2593
GI	6561629	Score	236
Exons	2310..2593		
GI Descrip.	(AF197641) ATPase alpha subunit [Cabomba sp. Qiu 97027]		

Seq. No.	21596	Seq. ID	OJ990305_12.9819.C23
Gene No.	45117	Strand	+
Start	3138	End	3687
Name	OJ990305_12.9819.C23.o2.gs	Method	GENSCAN
Start	3138	End	3687
GI	none	Score	.55
Exons	3138..3190, 3360..3379, 3607..3687		

Seq. No.	21596	Seq. ID	OJ990305_12.9819.C23
Gene No.	45118	Strand	-
Start	109	End	2080
Name	OJ990305_12.9819.C23.o1.gs	Method	GENSCAN
Start	109	End	2080
GI	none	Score	.71
Exons	109..173, 377..448, 899..1007, 1410..1728, 2073..2080		

Seq. No.	21596	Seq. ID	OJ990305_12.9819.C23
Gene No.	45118	Strand	-
Start	109	End	2080
Name	OJ990305_12.9819.C23.o1.tm	Method	TBLASTX:Maize
Start	112	End	1677
GI	none	Score	94
Exons	112..174, 116..175, 894..1010, 898..1026, 1467..1556, 1498..1587, 1521..1568, 1553..1603, 1554..1652, 1555..1653, 1575..1667, 1588..1677		

Seq. No.	21596	Seq. ID	OJ990305_12.9819.C23
Gene No.	45119	Strand	
Start	2375	End	2628
Name	OJ990305_12.9819.C23.o1.tw	Method	TBLASTX:Wheat
Start	2375	End	2628
GI	none	Score	85
Exons	2375..2446, 2376..2447, 2423..2506, 2443..2505, 2448..2507, 2448..2507, 2449..2508, 2507..2569, 2508..2570, 2509..2571, 2515..2571, 2581..2622, 2583..2627, 2584..2628		

Seq. No.	21597	Seq. ID	OJ990305_12.9819.C24
Gene No.	45120	Strand	+
Start	1	End	408
Name	OJ990305_12.9819.C24.o1.np	Method	AAT/NAP
Start	1	End	405

GI	5902368	Score	161
Exons	1..153, 193..405		
GI Descrip.	(AC009322) Unknown protein [Arabidopsis thaliana]		
Seq. No.	21597	Seq. ID	OJ990305_12.9819.C24
Gene No.	45120	Strand	+
Start	1	End	408
Name	OJ990305_12.9819.C24.o1.gs	Method	GENSCAN
Start	259	End	408
GI	none	Score	.69
Exons	259..408		
Seq. No.	21597	Seq. ID	OJ990305_12.9819.C24
Gene No.	45121	Strand	-
Start	1694	End	4623
Name	OJ990305_12.9819.C24.o2.tm	Method	TBLASTX:Maize
Start	6	End	399
GI	none	Score	119
Exons	6..131, 7..132, 233..322, 234..332, 241..399, 274..348		
Seq. No.	21597	Seq. ID	OJ990305_12.9819.C24
Gene No.	45121	Strand	-
Start	1694	End	4623
Name	OJ990305_12.9819.C24.o2.np	Method	AAT/NAP
Start	1157	End	3590
GI	6523093	Score	464
Exons	1157..1305, 1711..1879, 2379..2513, 3092..3230, 3309..3424, 3497..3590		
GI Descrip.	(AL133315) putative protein [Arabidopsis thaliana]		
Seq. No.	21597	Seq. ID	OJ990305_12.9819.C24
Gene No.	45121	Strand	-
Start	1694	End	4623
Name	OJ990305_12.9819.C24.o1.gp	Method	AAT/GAP
Start	1273	End	3122
GI	none	Score	1247
Exons	1273..1854, 2444..2513, 3083..3122		
Seq. No.	21597	Seq. ID	OJ990305_12.9819.C24
Gene No.	45121	Strand	-
Start	1694	End	4623
Name	OJ990305_12.9819.C24.o1.tm	Method	TBLASTX:Maize
Start	1652	End	3540
GI	none	Score	169
Exons	1652..1855, 1721..1789, 1835..1855, 2439..2510, 2440..2511, 2441..2530, 2442..2510, 3080..3229, 3080..3244, 3082..3231, 3309..3425, 3310..3420, 3311..3436, 3489..3539, 3494..3538, 3495..3539, 3496..3540		
Seq. No.	21597	Seq. ID	OJ990305_12.9819.C24
Gene No.	45121	Strand	-
Start	1694	End	4623
Name	OJ990305_12.9819.C24.o2.gs	Method	GENSCAN
Start	1694	End	3989
GI	none	Score	.86
Exons	1694..1854, 2444..2513, 3083..3230, 3309..3424, 3497..3575, 3658..3728, 3837..3989		

Seq. No.	21597	Seq. ID	OJ990305_12.9819.C24
Gene No.	45121	Strand	-
Start	1694	End	4623
Name	OJ990305_12.9819.C24.o1.ts	Method	TBLASTX:Soybean
Start	3074	End	3698
GI	none	Score	94
Exons	3074..3229, 3083..3244, 3132..3248, 3183..3233, 3308..3436, 3309..3422, 3501..3593, 3503..3592, 3663..3698		

Seq. No.	21597	Seq. ID	OJ990305_12.9819.C24
Gene No.	45121	Strand	-
Start	1694	End	4623
Name	OJ990305_12.9819.C24.o2.gp	Method	AAT/GAP
Start	3404	End	4587
GI	none	Score	683
Exons	3404..3424, 3497..3575, 3658..3728, 3837..3995, 4522..4587		

Seq. No.	21597	Seq. ID	OJ990305_12.9819.C24
Gene No.	45121	Strand	-
Start	1694	End	4623
Name	OJ990305_12.9819.C24.o2.ts	Method	TBLASTX:Soybean
Start	3699	End	4623
GI	none	Score	119
Exons	3699..3731, 3837..3998, 3838..3996, 4522..4623, 4529..4621		

Seq. No.	21598	Seq. ID	OJ990305_12.9819.C25
Gene No.	45122	Strand	-
Start	200	End	2944
Name	OJ990305_12.9819.C25.o1.gs	Method	GENSCAN
Start	200	End	2944
GI	none	Score	.41
Exons	200..300, 1623..1802, 2676..2944		

Seq. No.	21599	Seq. ID	OJ990305_12.9819.C26
Gene No.	45123	Strand	+
Start	1	End	2662
Name	OJ990305_12.9819.C26.o1.np	Method	AAT/NAP
Start	1	End	2407
GI	6723926	Score	114
Exons	1..173, 212..425, 1589..1649, 1825..1899, 2347..2407		
GI Descrip.	(AL136536) putative ubiquitin carboxyl-terminal hydrolase [Schizosaccharomyces pombe]		

Seq. No.	21599	Seq. ID	OJ990305_12.9819.C26
Gene No.	45123	Strand	+
Start	1	End	2662
Name	OJ990305_12.9819.C26.o1.tm	Method	TBLASTX:Maize
Start	1	End	380
GI	none	Score	288
Exons	1..204, 3..206, 201..380, 202..366		

Seq. No.	21599	Seq. ID	OJ990305_12.9819.C26
Gene No.	45123	Strand	+
Start	1	End	2662
Name	OJ990305_12.9819.C26.o1.gs	Method	GENSCAN
Start	73	End	2475

GI	none	Score	.45
Exons	73..425, 909..1188, 2389..2475		
Seq. No.	21599	Seq. ID	OJ990305_12.9819.C26
Gene No.	45123	Strand	+
Start	1	End	2662
Name	OJ990305_12.9819.C26.o2.tm	Method	TBLASTX:Maize
Start	382	End	2662
GI	none	Score	74
Exons	382..426, 384..431, 1557..1664, 1582..1665, 1586..1663, 1587..1664, 1770..1865, 1771..1863, 2386..2475, 2388..2510, 2540..2662, 2551..2661		
Seq. No.	21600	Seq. ID	OJ990305_12.9819.C27
Gene No.	45124	Strand	+
Start	474	End	1038
Name	OJ990305_12.9819.C27.o1.gp	Method	AAT/GAP
Start	474	End	1038
GI	none	Score	867
Exons	474..588, 672..1038		
Seq. No.	21600	Seq. ID	OJ990305_12.9819.C27
Gene No.	45125	Strand	+
Start	4116	End	5323
Name	OJ990305_12.9819.C27.o1.np	Method	AAT/NAP
Start	4116	End	5323
GI	2832643	Score	957
Exons	4116..4407, 4447..5204, 5232..5323		
GI Descrip.	(AL021710) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	21600	Seq. ID	OJ990305_12.9819.C27
Gene No.	45126	Strand	+
Start	7031	End	7487
Name	OJ990305_12.9819.C27.o3.gp	Method	AAT/GAP
Start	7031	End	7487
GI	none	Score	849
Exons	7031..7487		
Seq. No.	21600	Seq. ID	OJ990305_12.9819.C27
Gene No.	45127	Strand	-
Start	5903	End	7616
Name	OJ990305_12.9819.C27.o1.tc	Method	TBLASTX:Cress
Start	4184	End	4498
GI	none	Score	231
Exons	4184..4348, 4430..4498		
Seq. No.	21600	Seq. ID	OJ990305_12.9819.C27
Gene No.	45127	Strand	-
Start	5903	End	7616
Name	OJ990305_12.9819.C27.o1.tm	Method	TBLASTX:Maize
Start	4184	End	5398
GI	none	Score	153
Exons	4184..4348, 4415..4474, 4595..4711, 4597..4752, 4598..4753, 4819..5223, 4820..5188, 5234..5398		
Seq. No.	21600	Seq. ID	OJ990305_12.9819.C27
Gene No.	45127	Strand	-

Start	5903	End	7616
Name	OJ990305_12.9819.C27.o2.ts	Method	TBLASTX:Soybean
Start	4235	End	4753
GI	none	Score	157
Exons	4235..4348, 4237..4287, 4415..4498, 4420..4533, 4598..4753, 4604..4723, 4606..4752		

Seq. No.	21600	Seq. ID	OJ990305_12.9819.C27
Gene No.	45127	Strand	-
Start	5903	End	7616
Name	OJ990305_12.9819.C27.o2.tc	Method	TBLASTX:Cress
Start	4601	End	5326
GI	none	Score	137
Exons	4601..4753, 4705..4749, 4861..4926, 4862..5035, 4865..5011, 5006..5194, 5261..5326		

Seq. No.	21600	Seq. ID	OJ990305_12.9819.C27
Gene No.	45127	Strand	-
Start	5903	End	7616
Name	OJ990305_12.9819.C27.o1.ts	Method	TBLASTX:Soybean
Start	4829	End	5326
GI	none	Score	86
Exons	4829..5149, 4831..5070, 4832..5179, 4834..5181, 5186..5215, 5227..5325, 5234..5326, 5234..5323		

Seq. No.	21600	Seq. ID	OJ990305_12.9819.C27
Gene No.	45127	Strand	-
Start	5903	End	7616
Name	OJ990305_12.9819.C27.o2.gs	Method	GENSCAN
Start	5903	End	7616
GI	none	Score	.44
Exons	5903..5979, 7565..7616		

Seq. No.	21601	Seq. ID	OJ990305_12.9819.C28
Gene No.	45128	Strand	-
Start	944	End	1169
Name	OJ990305_12.9819.C28.o1.gs	Method	GENSCAN
Start	944	End	1169
GI	none	Score	.75
Exons	944..1169		

Seq. No.	21602	Seq. ID	OJ990305_12.9819.C29
Gene No.	45129	Strand	+
Start	64	End	231
Name	OJ990305_12.9819.C29.o1.gs	Method	GENSCAN
Start	64	End	231
GI	none	Score	.77
Exons	64..231		

Seq. No.	21602	Seq. ID	OJ990305_12.9819.C29
Gene No.	45130	Strand	+
Start	1627	End	4001
Name	OJ990305_12.9819.C29.o1.np	Method	AAT/NAP
Start	1537	End	4001
GI	5042454	Score	2311
Exons	1537..1687, 2077..2183, 2240..3651, 3918..4001		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		



Seq. No.	21602	Seq. ID	OJ990305_12.9819.C29
Gene No.	45130	Strand	+
Start	1627	End	4001
Name	OJ990305_12.9819.C29.o2.gs	Method	GENSCAN
Start	1627	End	3915
GI	none	Score	.53
Exons	1627..1683, 1974..2183, 2374..3112, 3209..3321, 3339..3915		

Seq. No.	21602	Seq. ID	OJ990305_12.9819.C29
Gene No.	45130	Strand	+
Start	1627	End	4001
Name	OJ990305_12.9819.C29.o1.tw	Method	TBLASTX:Wheat
Start	2751	End	3303
GI	none	Score	38
Exons	2751..2786, 2911..2958, 2965..3063, 2970..3062, 3030..3269, 3046..3303		

Seq. No.	21602	Seq. ID	OJ990305_12.9819.C29
Gene No.	45130	Strand	+
Start	1627	End	4001
Name	OJ990305_12.9819.C29.o1.tm	Method	TBLASTX:Maize
Start	2916	End	3201
GI	none	Score	191
Exons	2916..3200, 2953..3201		

Seq. No.	21603	Seq. ID	OJ990305_12.9819.C30
Gene No.	45131	Strand	+
Start	1	End	2377
Name	OJ990305_12.9819.C30.o1.np	Method	AAT/NAP
Start	1	End	2377
GI	6498441	Score	2292
Exons	1..217, 281..654, 838..972, 1147..1573, 1766..2062, 2234..2377		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	21603	Seq. ID	OJ990305_12.9819.C30
Gene No.	45131	Strand	+
Start	1	End	2377
Name	OJ990305_12.9819.C30.o1.gs	Method	GENSCAN
Start	29	End	2281
GI	none	Score	.49
Exons	29..217, 281..654, 838..2281		

Seq. No.	21603	Seq. ID	OJ990305_12.9819.C30
Gene No.	45131	Strand	+
Start	1	End	2377
Name	OJ990305_12.9819.C30.o1.tw	Method	TBLASTX:Wheat
Start	288	End	751
GI	none	Score	212
Exons	288..731, 289..744, 290..751, 290..745		

Seq. No.	21603	Seq. ID	OJ990305_12.9819.C30
Gene No.	45131	Strand	+
Start	1	End	2377
Name	OJ990305_12.9819.C30.o2.ts	Method	TBLASTX:Soybean

Start 329  
GI none  
Exons 329..553, 560..694

End 694  
Score 110

Seq. No. 21603  
Gene No. 45131  
Start 1  
Name OJ990305\_12.9819.C30.o1.tm  
Start 419  
GI none  
Exons 419..775, 454..765, 659..775

Seq. ID OJ990305\_12.9819.C30  
Strand +  
End 2377  
Method TBLASTX:Maize  
End 775  
Score 385

Seq. No. 21603  
Gene No. 45131  
Start 1  
Name OJ990305\_12.9819.C30.o2.tm  
Start 802  
GI none  
Exons 802..1167, 803..1186

Seq. ID OJ990305\_12.9819.C30  
Strand +  
End 2377  
Method TBLASTX:Maize  
End 1186  
Score 353

Seq. No. 21603  
Gene No. 45131  
Start 1  
Name OJ990305\_12.9819.C30.o2.tw  
Start 859  
GI none  
Exons 859..1272, 860..1279

Seq. ID OJ990305\_12.9819.C30  
Strand +  
End 2377  
Method TBLASTX:Wheat  
End 1279  
Score 487

Seq. No. 21603  
Gene No. 45131  
Start 1  
Name OJ990305\_12.9819.C30.o1.ts  
Start 938  
GI none  
Exons 938..1309, 955..1098

Seq. ID OJ990305\_12.9819.C30  
Strand +  
End 2377  
Method TBLASTX:Soybean  
End 1309  
Score 274

Seq. No. 21603  
Gene No. 45131  
Start 1  
Name OJ990305\_12.9819.C30.o3.tw  
Start 1910  
GI none  
Exons 1910..2131, 1925..2185, 1999..2184, 2053..2199, 2219..2317, 2230..2319

Seq. ID OJ990305\_12.9819.C30  
Strand +  
End 2377  
Method TBLASTX:Wheat  
End 2319  
Score 242

Seq. No. 21604  
Gene No. 45132  
Start 1  
Name OJ990305\_12.9819.C31.o1.np  
Start 1  
GI 6498441  
Exons 1..206, 300..581

Seq. ID OJ990305\_12.9819.C31  
Strand +  
End 584  
Method AAT/NAP  
End 581  
Score 737

GI Descrip. (AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]

Seq. No. 21604 Seq. ID OJ990305\_12.9819.C31

Gene No.	45132	Strand	+
Start	1	End	584
Name	OJ990305_12.9819.C31.ol.gs	Method	GENSCAN
Start	59	End	584
GI	none	Score	.45
Exons	59..584		
Seq. No.	21604	Seq. ID	OJ990305_12.9819.C31
Gene No.	45133	Strand	-
Start	737	End	818
Name	OJ990305_12.9819.C31.ol.tw	Method	TBLASTX:Wheat
Start	11	End	572
GI	none	Score	211
Exons	11..253, 12..260, 108..386, 342..416, 446..568, 447..572		
Seq. No.	21604	Seq. ID	OJ990305_12.9819.C31
Gene No.	45133	Strand	-
Start	737	End	818
Name	OJ990305_12.9819.C31.ol.gp	Method	AAT/GAP
Start	737	End	818
GI	2428323	Score	133
Exons	737..818		
GI Descrip.	5803242/dbj AP000399.1 AP000399 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04		
Seq. No.	21605	Seq. ID	OJ990305_12.9819.C32
Gene No.	45134	Strand	+
Start	36	End	256
Name	OJ990305_12.9819.C32.ol.gs	Method	GENSCAN
Start	36	End	256
GI	none	Score	.55
Exons	36..42, 48..256		
Seq. No.	21606	Seq. ID	OJ990305_12.9819.C34
Gene No.	45135	Strand	-
Start	1	End	1459
Name	OJ990305_12.9819.C34.ol.np	Method	AAT/NAP
Start	1	End	1402
GI	5739323	Score	500
Exons	1..105, 277..1402		
GI Descrip.	(AF166121) Cf2/Cf5 disease resistance protein homolog [Hordeum vulgare]		
Seq. No.	21606	Seq. ID	OJ990305_12.9819.C34
Gene No.	45135	Strand	-
Start	1	End	1459
Name	OJ990305_12.9819.C34.ol.gs	Method	GENSCAN
Start	441	End	1459
GI	none	Score	.7
Exons	441..674, 1291..1459		
Seq. No.	21607	Seq. ID	OJ990305_12.9819.C35
Gene No.	45136	Strand	+
Start	281	End	566
Name	OJ990305_12.9819.C35.ol.gs	Method	GENSCAN
Start	281	End	566
GI	none	Score	.47

Exons 281..339, 458..566

Seq. No.	21608	Seq. ID	OJ990305_12.9819.C36
Gene No.	45137	Strand	+
Start	435	End	699
Name	OJ990305_12.9819.C36.o1.gs	Method	GENSCAN
Start	435	End	699
GI	none	Score	.53
Exons	435..699		

Seq. No.	21609	Seq. ID	OJ990305_12.9819.C37
Gene No.	45138	Strand	+
Start	1	End	735
Name	OJ990305_12.9819.C37.o1.np	Method	AAT/NAP
Start	1	End	735
GI	4826399	Score	447
Exons	1..735		
GI Descrip.	(AJ012423) wall-associated kinase 2 [Arabidopsis thaliana]		

Seq. No.	21609	Seq. ID	OJ990305_12.9819.C37
Gene No.	45138	Strand	+
Start	1	End	735
Name	OJ990305_12.9819.C37.o1.tw	Method	TBLASTX:Wheat
Start	49	End	402
GI	none	Score	177
Exons	49..279, 171..266, 283..402, 315..401		

Seq. No.	21609	Seq. ID	OJ990305_12.9819.C37
Gene No.	45138	Strand	+
Start	1	End	735
Name	OJ990305_12.9819.C37.o1.tc	Method	TBLASTX:Cress
Start	52	End	627
GI	none	Score	43
Exons	52..78, 91..411, 99..269, 315..416, 514..627, 525..620		

Seq. No.	21609	Seq. ID	OJ990305_12.9819.C37
Gene No.	45138	Strand	+
Start	1	End	735
Name	OJ990305_12.9819.C37.o1.tm	Method	TBLASTX:Maize
Start	97	End	627
GI	none	Score	363
Exons	97..423, 114..269, 148..396, 315..401, 508..627		

Seq. No.	21609	Seq. ID	OJ990305_12.9819.C37
Gene No.	45138	Strand	+
Start	1	End	735
Name	OJ990305_12.9819.C37.o1.ts	Method	TBLASTX:Soybean
Start	100	End	454
GI	none	Score	375
Exons	100..423, 114..266, 178..396, 312..401, 356..454		

Seq. No.	21610	Seq. ID	OJ990305_12.9819.C38
Gene No.	45139	Strand	+
Start	265	End	1052
Name	OJ990305_12.9819.C38.o1.gs	Method	GENSCAN
Start	265	End	1052
GI	none	Score	.74

Exons 265..465, 583..737, 899..1052

Seq. No.	21610	Seq. ID	OJ990305_12.9819.C38
Gene No.	45140	Strand	+
Start	1232	End	1604
Name	OJ990305_12.9819.C38.o2.gs	Method	GENSCAN
Start	1232	End	1604
GI	none	Score	.57
Exons	1232..1370, 1496..1604		

Seq. No.	21611	Seq. ID	OJ990305_12.9819.C40
Gene No.	45141	Strand	+
Start	1	End	2988
Name	OJ990305_12.9819.C40.o1.np	Method	AAT/NAP
Start	1	End	2676
GI	4309698	Score	1842
Exons	1..73, 671..985, 1096..1379, 1472..1585, 2056..2676		
GI Descrip.	(AC006266) putative glucosyltransferase [Arabidopsis thaliana]		

Seq. No.	21611	Seq. ID	OJ990305_12.9819.C40
Gene No.	45141	Strand	+
Start	1	End	2988
Name	OJ990305_12.9819.C40.o1.tm	Method	TBLASTX:Maize
Start	24	End	2563
GI	none	Score	65
Exons	24..107, 38..76, 668..982, 669..767, 670..981, 1084..1287, 1084..1275, 1089..1286, 1271..1381, 1275..1382, 1292..1384, 1460..1612, 1464..1568, 1465..1584, 2055..2153, 2125..2190, 2154..2471, 2155..2472, 2156..2476, 2157..2477, 2507..2563		

Seq. No.	21611	Seq. ID	OJ990305_12.9819.C40
Gene No.	45141	Strand	+
Start	1	End	2988
Name	OJ990305_12.9819.C40.o1.tc	Method	TBLASTX:Cress
Start	38	End	2439
GI	none	Score	60
Exons	38..76, 664..981, 668..982, 824..982, 1079..1246, 1084..1287, 1084..1275, 1089..1286, 1266..1376, 1274..1381, 1275..1382, 1466..1612, 1480..1581, 1481..1588, 2064..2399, 2118..2438, 2125..2439		

Seq. No.	21611	Seq. ID	OJ990305_12.9819.C40
Gene No.	45141	Strand	+
Start	1	End	2988
Name	OJ990305_12.9819.C40.o1.ts	Method	TBLASTX:Soybean
Start	668	End	1521
GI	none	Score	467
Exons	668..979, 679..978, 817..981, 818..979, 825..983, 1084..1275, 1095..1268, 1274..1378, 1275..1385, 1466..1519, 1471..1521		

Seq. No.	21611	Seq. ID	OJ990305_12.9819.C40
Gene No.	45141	Strand	+
Start	1	End	2988
Name	OJ990305_12.9819.C40.o3.ts	Method	TBLASTX:Soybean
Start	1522	End	2285
GI	none	Score	105
Exons	1522..1584, 1523..1588, 2064..2282, 2117..2284, 2118..2285,		

2125..2283

Seq. No.	21611	Seq. ID	OJ990305_12.9819.C40
Gene No.	45141	Strand	+
Start	1	End	2988
Name	OJ990305_12.9819.C40.o1.gp	Method	AAT/GAP
Start	2055	End	2514
GI	LIB3434-062-P1-K1-A5	Score	864
Exons	2055..2514		
GI Descrip.	'4309698/gb AAD15482  2.0e-39 (AC006266) putative glucosyltransferase [Arabidopsis thaliana]'		

Seq. No.	21611	Seq. ID	OJ990305_12.9819.C40
Gene No.	45141	Strand	+
Start	1	End	2988
Name	OJ990305_12.9819.C40.o1.tw	Method	TBLASTX:Wheat
Start	2137	End	2388
GI	none	Score	183
Exons	2137..2388, 2148..2381		

Seq. No.	21611	Seq. ID	OJ990305_12.9819.C40
Gene No.	45141	Strand	+
Start	1	End	2988
Name	OJ990305_12.9819.C40.o2.ts	Method	TBLASTX:Soybean
Start	2286	End	2694
GI	none	Score	244
Exons	2286..2465, 2287..2469, 2515..2694, 2550..2684		

Seq. No.	21611	Seq. ID	OJ990305_12.9819.C40
Gene No.	45141	Strand	+
Start	1	End	2988
Name	OJ990305_12.9819.C40.o2.gp	Method	AAT/GAP
Start	2526	End	2988
GI	16240_1.R1084	Score	719
Exons	2526..2988		
GI Descrip.	'5670155/gb AF161269.1 AF161269 4.0e-86 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence'		

Seq. No.	21612	Seq. ID	OJ990305_12.9819.C41
Gene No.	45142	Strand	-
Start	1962	End	4085
Name	OJ990305_12.9819.C41.o1.np	Method	AAT/NAP
Start	691	End	4085
GI	2827699	Score	273
Exons	691..760, 1989..2308, 2354..2465, 3111..3308, 3994..4085		
GI Descrip.	(AL021684) predicted protein [Arabidopsis thaliana]		

Seq. No.	21612	Seq. ID	OJ990305_12.9819.C41
Gene No.	45142	Strand	-
Start	1962	End	4085
Name	OJ990305_12.9819.C41.o1.gs	Method	GENSCAN
Start	1962	End	3298
GI	none	Score	.97
Exons	1962..2465, 3111..3298		

Seq. No.	21612	Seq. ID	OJ990305_12.9819.C41
Gene No.	45142	Strand	-

21952

Start	1962	End	4085
Name	OJ990305_12.9819.C41.ol.tm	Method	TBLASTX:Maize
Start	2178	End	3253
GI	none	Score	81
Exons	2178..2330, 2178..2348, 2179..2349, 2243..2350, 2355..2486, 2407..2466, 3105..3248, 3110..3253, 3112..3246, 3113..3253		

Seq. No.	21612	Seq. ID	OJ990305_12.9819.C41
Gene No.	45142	Strand	-
Start	1962	End	4085
Name	OJ990305_12.9819.C41.ol.tc	Method	TBLASTX:Cress
Start	2190	End	3324
GI	none	Score	66
Exons	2190..2393, 3102..3212, 3105..3299, 3109..3324		

Seq. No.	21612	Seq. ID	OJ990305_12.9819.C41
Gene No.	45142	Strand	-
Start	1962	End	4085
Name	OJ990305_12.9819.C41.ol.gp	Method	AAT/GAP
Start	2296	End	3298
GI	LIB3474-012-P1-K1-A12	Score	673
Exons	2296..2465, 3111..3298		
GI Descrip.	'2827699/emb CAA16672  7.0e-23 (AL021684) predicted protein [Arabidopsis thaliana]'		

Seq. No.	21613	Seq. ID	OJ990305_12.9819.C42
Gene No.	45143	Strand	+
Start	1450	End	1536
Name	OJ990305_12.9819.C42.ol.gs	Method	GENSCAN
Start	1450	End	1536
GI	none	Score	.77
Exons	1450..1536		

Seq. No.	21613	Seq. ID	OJ990305_12.9819.C42
Gene No.	45144	Strand	+
Start	2361	End	2667
Name	OJ990305_12.9819.C42.o2.gs	Method	GENSCAN
Start	2361	End	2516
GI	none	Score	.94
Exons	2361..2516		

Seq. No.	21613	Seq. ID	OJ990305_12.9819.C42
Gene No.	45144	Strand	+
Start	2361	End	2667
Name	OJ990305_12.9819.C42.o1.np	Method	AAT/NAP
Start	2376	End	2667
GI	3282523	Score	169
Exons	2376..2667		
GI Descrip.	(AF025433) tyrosine/dopa decarboxylase [Papaver somniferum]		

Seq. No.	21614	Seq. ID	OJ990305_12.9819.C43
Gene No.	45145	Strand	+
Start	1	End	661
Name	OJ990305_12.9819.C43.o1.np	Method	AAT/NAP
Start	1	End	550
GI	1717825	Score	248
Exons	1..550		

GI Descrip. TYROSINE/DOPA DECARBOXYLASE 1 [INCLUDES: DOPA DECARBOXYLASE (DDC); TYROSINE DECARBOXYLASE ] gi|1076244|pir||A55066 tyrosine decarboxylase (EC 4.1.1.25) 1 - opium poppy gi|607745 (U08597) tyrosine/dopa decarboxylase [Papaver somniferum]

Seq. No.	21614	Seq. ID	OJ990305_12.9819.C43
Gene No.	45145	Strand	+
Start	1	End	661
Name	OJ990305_12.9819.C43.o1.gs	Method	GENSCAN
Start	168	End	661
GI	none	Score	.88
Exons	168..661		

Seq. No.	21614	Seq. ID	OJ990305_12.9819.C43
Gene No.	45146	Strand	+
Start	1203	End	1658
Name	OJ990305_12.9819.C43.o2.np	Method	AAT/NAP
Start	1203	End	1658
GI	5922623	Score	77
Exons	1203..1309, 1640..1658		

GI Descrip. (AP000492) hypothetical protein [Oryza sativa] gi|6016856|dbj|BAA85199.1| (AP000570) hypothetical protein [Oryza sativa]

Seq. No.	21614	Seq. ID	OJ990305_12.9819.C43
Gene No.	45147	Strand	-
Start	1074	End	1390
Name	OJ990305_12.9819.C43.o1.tc	Method	TBLASTX:Cress
Start	176	End	499
GI	none	Score	81
Exons	176..295, 196..291, 350..499, 376..492		

Seq. No.	21614	Seq. ID	OJ990305_12.9819.C43
Gene No.	45147	Strand	-
Start	1074	End	1390
Name	OJ990305_12.9819.C43.o1.tw	Method	TBLASTX:Wheat
Start	208	End	499
GI	none	Score	105
Exons	208..288, 209..319, 347..499		

Seq. No.	21614	Seq. ID	OJ990305_12.9819.C43
Gene No.	45147	Strand	-
Start	1074	End	1390
Name	OJ990305_12.9819.C43.o2.gs	Method	GENSCAN
Start	1074	End	1390
GI	none	Score	.51
Exons	1074..1115, 1236..1390		

Seq. No.	21615	Seq. ID	OJ990305_12.9819.C44
Gene No.	45148	Strand	+
Start	330	End	608
Name	OJ990305_12.9819.C44.o1.gs	Method	GENSCAN
Start	330	End	608
GI	none	Score	.71
Exons	330..376, 422..608		

Seq. No.	21616	Seq. ID	OJ990305_12.9819.C47
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Gene No.	45149	Strand	+
Start	1	End	421
Name	OJ990305_12.9819.C47.ol.np	Method	AAT/NAP
Start	1	End	421
GI	6063554	Score	75
Exons	1..421		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	21617	Seq. ID	OJ990305_12.9819.C48
Gene No.	45150	Strand	-
Start	1312	End	1451
Name	OJ990305_12.9819.C48.ol.gs	Method	GENSCAN
Start	1312	End	1451
GI	none	Score	.86
Exons	1312..1451		

Seq. No.	21618	Seq. ID	OJ990305_12.9819.C49
Gene No.	45151	Strand	+
Start	1334	End	1500
Name	OJ990305_12.9819.C49.ol.gp	Method	AAT/GAP
Start	1334	End	1500
GI	533_1.R1084	Score	182
Exons	1334..1387, 1410..1500		
GI Descrip.	'113172/sp P15543 ACP3_HORVU 9.0e-52 ACYL CARRIER PROTEIN III PRECURSOR (ACP III) >gi_100561_pir_S17928 acyl carrier protein 3 - barley >gi_166971 (M58754) acyl carrier protein III [Hordeum vulgare]'		

Seq. No.	21619	Seq. ID	OJ990305_12.9819.C50
Gene No.	45152	Strand	-
Start	1	End	855
Name	OJ990305_12.9819.C50.ol.np	Method	AAT/NAP
Start	1	End	855
GI	1076763	Score	465
Exons	1..855		
GI Descrip.	AWJL218 protein - wheat gi 551212 emb CAA57134  (X81369) AWJL218 [Triticum aestivum]		

Seq. No.	21619	Seq. ID	OJ990305_12.9819.C50
Gene No.	45152	Strand	-
Start	1	End	855
Name	OJ990305_12.9819.C50.ol.tm	Method	TBLASTX:Maize
Start	2	End	727
GI	none	Score	210
Exons	2..124, 11..124, 65..121, 284..727, 302..565		

Seq. No.	21619	Seq. ID	OJ990305_12.9819.C50
Gene No.	45152	Strand	-
Start	1	End	855
Name	OJ990305_12.9819.C50.ol.ts	Method	TBLASTX:Soybean
Start	2	End	721
GI	none	Score	83
Exons	2..130, 11..190, 14..130, 284..565, 284..565, 284..565, 287..565, 587..721		

Seq. No.	21619	Seq. ID	OJ990305_12.9819.C50
Gene No.	45152	Strand	-
Start	1	End	855
Name	OJ990305_12.9819.C50.ol.tc	Method	TBLASTX:Cress
Start	11	End	706
GI	none	Score	58
Exons	11..139, 11..139, 11..124, 11..121, 11..130, 11..121, 11..115, 272..469, 284..706, 284..511, 290..565, 293..571, 293..565, 299..580, 323..484, 357..458, 395..583, 578..706, 587..706		

Seq. No.	21620	Seq. ID	OJ990305_12.9819.C52
Gene No.	45153	Strand	-
Start	452	End	568
Name	OJ990305_12.9819.C52.ol.gs	Method	GENSCAN
Start	452	End	568
GI	none	Score	.6
Exons	452..568		

Seq. No.	21621	Seq. ID	OJ990305_12.9819.C55
Gene No.	45154	Strand	+
Start	454	End	566
Name	OJ990305_12.9819.C55.ol.gs	Method	GENSCAN
Start	454	End	566
GI	none	Score	.86
Exons	454..566		

Seq. No.	21622	Seq. ID	OJ990305_12.9819.C56
Gene No.	45155	Strand	-
Start	348	End	1377
Name	OJ990305_12.9819.C56.ol.gs	Method	GENSCAN
Start	348	End	1100
GI	none	Score	.7
Exons	348..464, 841..883, 1039..1100		

Seq. No.	21622	Seq. ID	OJ990305_12.9819.C56
Gene No.	45155	Strand	-
Start	348	End	1377
Name	OJ990305_12.9819.C56.ol.np	Method	AAT/NAP
Start	411	End	1377
GI	5042454	Score	.189
Exons	411..471, 847..1033, 1336..1377		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	21623	Seq. ID	OJ990305_12.9819.C57
Gene No.	45156	Strand	-
Start	320	End	1300
Name	OJ990305_12.9819.C57.ol.gs	Method	GENSCAN
Start	320	End	1300
GI	none	Score	.89
Exons	320..433, 504..563, 636..1046, 1127..1300		

Seq. No.	21624	Seq. ID	OJ990305_12.9819.C59
Gene No.	45157	Strand	+
Start	176	End	514
Name	OJ990305_12.9819.C59.ol.gs	Method	GENSCAN
Start	176	End	514
GI	none	Score	.93

Exons 176..514

Seq. No.	21625	Seq. ID	OJ990305_12.9819.C60
Gene No.	45158	Strand	+
Start	1	End	1091
Name	OJ990305_12.9819.C60.ol.gp	Method	AAT/GAP
Start	1	End	336
GI	101595_1.R1084	Score	341
Exons	1..146, 262..336		
GI Descrip.	'3047066 3.0e-15 (AF058825) contains similarity to retrovirus-related POL polyproteins [Arabidopsis thaliana]'		

Seq. No.	21625	Seq. ID	OJ990305_12.9819.C60
Gene No.	45158	Strand	+
Start	1	End	1091
Name	OJ990305_12.9819.C60.ol.np	Method	AAT/NAP
Start	1	End	1091
GI	6630696	Score	1690
Exons	1..1091		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	21625	Seq. ID	OJ990305_12.9819.C60
Gene No.	45158	Strand	+
Start	1	End	1091
Name	OJ990305_12.9819.C60.ol.gs	Method	GENSCAN
Start	115	End	410
GI	none	Score	.82
Exons	115..151, 262..410		

Seq. No.	21625	Seq. ID	OJ990305_12.9819.C60
Gene No.	45158	Strand	+
Start	1	End	1091
Name	OJ990305_12.9819.C60.ol.tm	Method	TBLASTX:Maize
Start	277	End	612
GI	none	Score	380
Exons	277..549, 278..550, 279..551, 580..612		

Seq. No.	21625	Seq. ID	OJ990305_12.9819.C60
Gene No.	45158	Strand	+
Start	1	End	1091
Name	OJ990305_12.9819.C60.ol.tw	Method	TBLASTX:Wheat
Start	838	End	1030
GI	none	Score	250
Exons	838..1029, 839..1030		

Seq. No.	21626	Seq. ID	OJ990305_12.9819.C61
Gene No.	45159	Strand	-
Start	601	End	695
Name	OJ990305_12.9819.C61.ol.gs	Method	GENSCAN
Start	601	End	695
GI	none	Score	.61
Exons	601..695		

Seq. No.	21627	Seq. ID	OJ990305_12.9819.C63
Gene No.	45160	Strand	-

Start	1	End	840
Name	OJ990305_12.9819.C63.o1.np	Method	AAT/NAP
Start	1	End	840
GI	541816	Score	354
Exons	1..39, 326..452, 534..672, 774..840		
GI Descrip.	protein kinase - common ice plant gi 457689 emb CAA82990  (Z30329) protein kinase [Mesembryanthemum crystallinum]		

Seq. No.	21627	Seq. ID	OJ990305_12.9819.C63
Gene No.	45160	Strand	-
Start	1	End	840
Name	OJ990305_12.9819.C63.o1.tc	Method	TBLASTX:Cress
Start	2	End	670
GI	none	Score	98
Exons	2..55, 333..455, 333..449, 343..453, 534..668, 538..666, 542..670		

Seq. No.	21627	Seq. ID	OJ990305_12.9819.C63
Gene No.	45160	Strand	-
Start	1	End	840
Name	OJ990305_12.9819.C63.o1.ts	Method	TBLASTX:Soybean
Start	2	End	668
GI	none	Score	104
Exons	2..43, 333..455, 333..449, 337..453, 380..454, 529..666, 534..668, 535..666		

Seq. No.	21627	Seq. ID	OJ990305_12.9819.C63
Gene No.	45160	Strand	-
Start	1	End	840
Name	OJ990305_12.9819.C63.o1.tm	Method	TBLASTX:Maize
Start	2	End	668
GI	none	Score	59
Exons	2..55, 6..53, 336..449, 339..449, 368..454, 382..453, 529..666, 534..668, 535..666		

Seq. No.	21627	Seq. ID	OJ990305_12.9819.C63
Gene No.	45160	Strand	-
Start	1	End	840
Name	OJ990305_12.9819.C63.o1.gs	Method	GENSCAN
Start	339	End	665
GI	none	Score	.99
Exons	339..452, 534..665		

Seq. No.	21628	Seq. ID	OJ990305_12.9819.C64
Gene No.	45161	Strand	+
Start	1	End	726
Name	OJ990305_12.9819.C64.o1.np	Method	AAT/NAP
Start	1	End	726
GI	3024367	Score	55
Exons	1..22, 470..726		
GI Descrip.	PROGASTRICSIN PRECURSOR (PEPSINOGEN C) gi 348277 pir  B43356 gastricsin (EC 3.4.23.3) precursor - guinea pig gi 191297 (M88652) progastricsin [Cavia porcellus]		

Seq. No.	21629	Seq. ID	OJ990305_12.9819.C65
Gene No.	45162	Strand	-
Start	1	End	947

Name	OJ990305_12.9819.C65.ol.gp	Method	AAT/GAP
Start	1	End	772
GI	none	Score	754
Exons	1..135, 487..772		
Seq. No.	21629	Seq. ID	OJ990305_12.9819.C65
Gene No.	45162	Strand	-
Start	1	End	947
Name	OJ990305_12.9819.C65.ol.gs	Method	GENSCAN
Start	7	End	947
GI	none	Score	.94
Exons	7..135, 487..947		
Seq. No.	21630	Seq. ID	OJ990305_12.9819.C66
Gene No.	45163	Strand	-
Start	1	End	742
Name	OJ990305_12.9819.C66.ol.np	Method	AAT/NAP
Start	1	End	742
GI	1076761	Score	541
Exons	1..742		
GI Descrip.	AWJL172 protein - wheat gi 551208 emb CAA57132  (X81367) AWJL172 [Triticum aestivum]		
Seq. No.	21630	Seq. ID	OJ990305_12.9819.C66
Gene No.	45163	Strand	-
Start	1	End	742
Name	OJ990305_12.9819.C66.ol.ts	Method	TBLASTX:Soybean
Start	63	End	740
GI	none	Score	58
Exons	63..332, 63..260, 66..332, 66..146, 69..332, 69..335, 69..314, 69..332, 69..332, 69..308, 70..174, 70..153, 126..308, 211..321, 432..599, 438..737, 456..737, 456..680, 459..737, 462..659, 471..737, 489..740, 489..737, 489..737, 553..666		
Seq. No.	21630	Seq. ID	OJ990305_12.9819.C66
Gene No.	45163	Strand	-
Start	1	End	742
Name	OJ990305_12.9819.C66.ol.tw	Method	TBLASTX:Wheat
Start	63	End	737
GI	none	Score	136
Exons	63..332, 462..680, 489..737, 558..737		
Seq. No.	21630	Seq. ID	OJ990305_12.9819.C66
Gene No.	45163	Strand	-
Start	1	End	742
Name	OJ990305_12.9819.C66.ol.tc	Method	TBLASTX:Cress
Start	66	End	737
GI	none	Score	69
Exons	66..308, 66..281, 66..218, 69..305, 69..149, 69..335, 69..344, 69..332, 69..323, 69..332, 70..162, 72..344, 90..272, 117..188, 123..332, 135..347, 195..335, 264..323, 378..620, 432..662, 447..734, 456..620, 468..737, 474..536, 489..737, 489..680, 490..603, 576..737, 618..737, 669..734		
Seq. No.	21630	Seq. ID	OJ990305_12.9819.C66
Gene No.	45163	Strand	-
Start	1	End	742

Name	OJ990305_12.9819.C66.o1.tm	Method	TBLASTX:Maize
Start	66	End	737
GI	none	Score	95
Exons	66..344, 66..323, 66..182, 69..338, 69..104, 69..308, 69..332, 70..246, 87..332, 159..344, 456..689, 459..737, 462..737, 474..737		

Seq. No.	21631	Seq. ID	OJ990305_12.9819.C67
Gene No.	45164	Strand	-
Start	1	End	1428
Name	OJ990305_12.9819.C67.o1.np	Method	AAT/NAP
Start	1	End	1428
GI	5739323	Score	323
Exons	1..489, 529..658, 1402..1428		
GI Descrip.	(AF166121) Cf2/Cf5 disease resistance protein homolog [Hordeum vulgare]		

Seq. No.	21631	Seq. ID	OJ990305_12.9819.C67
Gene No.	45164	Strand	-
Start	1	End	1428
Name	OJ990305_12.9819.C67.o1.gs	Method	GENSCAN
Start	811	End	1034
GI	none	Score	.82
Exons	811..847, 895..1034		

Seq. No.	21632	Seq. ID	OJ990305_12.9819.C68
Gene No.	45165	Strand	-
Start	1	End	1027
Name	OJ990305_12.9819.C68.o1.np	Method	AAT/NAP
Start	1	End	1027
GI	6539570	Score	178
Exons	1..216, 582..648, 824..1027		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	21632	Seq. ID	OJ990305_12.9819.C68
Gene No.	45165	Strand	-
Start	1	End	1027
Name	OJ990305_12.9819.C68.o1.gs	Method	GENSCAN
Start	68	End	940
GI	none	Score	.62
Exons	68..216, 582..602, 784..940		

Seq. No.	21632	Seq. ID	OJ990305_12.9819.C68
Gene No.	45166	Strand	-
Start	1154	End	1234
Name	OJ990305_12.9819.C68.o2.np	Method	AAT/NAP
Start	1154	End	1234
GI	6630699	Score	81
Exons	1154..1234		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi 6721536 dbj BAA89566.1  (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	21633	Seq. ID	OJ990305_12.9819.C70
Gene No.	45167	Strand	-
Start	1	End	735
Name	OJ990305_12.9819.C70.o1.gp	Method	AAT/GAP

Start	1	End	210
GI	5667165	Score	282
Exons	1..19, 58..210		
GI Descrip.	5670155/gb AF161269.1 AF161269 4.0e-86 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence		

Seq. No.	21633	Seq. ID	OJ990305_12.9819.C70
Gene No.	45167	Strand	-
Start	1	End	735
Name	OJ990305_12.9819.C70.o1.np	Method	AAT/NAP
Start	1	End	735
GI	6069659	Score	104
Exons	1..45, 210..335, 703..735		
GI Descrip.	(AP000616) hypothetical protein [Oryza sativa]		

Seq. No.	21633	Seq. ID	OJ990305_12.9819.C70
Gene No.	45167	Strand	-
Start	1	End	735
Name	OJ990305_12.9819.C70.o2.np	Method	AAT/NAP
Start	471	End	735
GI	6907088	Score	308
Exons	471..735		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	21634	Seq. ID	OJ990305_12.9819.C72
Gene No.	45168	Strand	+
Start	1	End	393
Name	OJ990305_12.9819.C72.o1.np	Method	AAT/NAP
Start	1	End	336
GI	1076763	Score	216
Exons	1..336		
GI Descrip.	AWJL218 protein - wheat gi 551212 emb CAA57134  (X81369) AWJL218 [Triticum aestivum]		

Seq. No.	21634	Seq. ID	OJ990305_12.9819.C72
Gene No.	45168	Strand	+
Start	1	End	393
Name	OJ990305_12.9819.C72.o1.gs	Method	GENSCAN
Start	229	End	393
GI	none	Score	.45
Exons	229..393		

Seq. No.	21635	Seq. ID	OJ990305_12.9819.C73
Gene No.	45169	Strand	+
Start	267	End	953
Name	OJ990305_12.9819.C73.o1.gs	Method	GENSCAN
Start	267	End	789
GI	none	Score	.81
Exons	267..311, 542..789		

Seq. No.	21635	Seq. ID	OJ990305_12.9819.C73
Gene No.	45169	Strand	+
Start	267	End	953
Name	OJ990305_12.9819.C73.o1.np	Method	AAT/NAP
Start	506	End	953
GI	6721512	Score	62
Exons	506..657, 932..953		

GI Descrip. (AP001072) hypothetical protein [Oryza sativa]

Seq. No.	21636	Seq. ID	OJ990305_12.9819.C76
Gene No.	45170	Strand	-
Start	216	End	382
Name	OJ990305_12.9819.C76.ol.ts	Method	TBLASTX:Soybean
Start	196	End	368
GI	none	Score	77
Exons	196..366, 219..368		

Seq. No.	21636	Seq. ID	OJ990305_12.9819.C76
Gene No.	45170	Strand	-
Start	216	End	382
Name	OJ990305_12.9819.C76.ol.tm	Method	TBLASTX:Maize
Start	210	End	382
GI	none	Score	195
Exons	210..368, 212..382		

Seq. No.	21636	Seq. ID	OJ990305_12.9819.C76
Gene No.	45170	Strand	-
Start	216	End	382
Name	OJ990305_12.9819.C76.ol.gs	Method	GENSCAN
Start	216	End	365
GI	none	Score	.74
Exons	216..365		

Seq. No.	21637	Seq. ID	OJ990305_12.9819.C78
Gene No.	45171	Strand	-
Start	1	End	789
Name	OJ990305_12.9819.C78.ol.np	Method	AAT/NAP
Start	1	End	789
GI	629693	Score	354
Exons	1..789		
GI Descrip.	probable integrase - common tobacco (fragment) gi 530742 emb CAA56791  (X80830) integrase [Nicotiana tabacum]		

Seq. No.	21637	Seq. ID	OJ990305_12.9819.C78
Gene No.	45171	Strand	-
Start	1	End	789
Name	OJ990305_12.9819.C78.ol.gs	Method	GENSCAN
Start	327	End	723
GI	none	Score	.43
Exons	327..723		

Seq. No.	21637	Seq. ID	OJ990305_12.9819.C78
Gene No.	45171	Strand	-
Start	1	End	789
Name	OJ990305_12.9819.C78.ol.ts	Method	TBLASTX:Soybean
Start	348	End	710
GI	none	Score	81
Exons	348..710, 522..641, 526..642		

Seq. No.	21637	Seq. ID	OJ990305_12.9819.C78
Gene No.	45171	Strand	-
Start	1	End	789
Name	OJ990305_12.9819.C78.ol.tm	Method	TBLASTX:Maize
Start	369	End	710



GI none  
Exons 369..593, 588..710

Score 83

Seq. No. 21638  
Gene No. 45172  
Start 115  
Name OJ990305\_12.9819.C79.o1.gs  
Start 115  
GI none  
Exons 115..501

Seq. ID OJ990305\_12.9819.C79  
Strand +  
End 501  
Method GENSCAN  
End 501  
Score .55

Seq. No. 21639  
Gene No. 45173  
Start 362  
Name OJ990305\_12.9819.C80.o1.gs  
Start 362  
GI none  
Exons 362..406, 621..893, 1215..1394, 1510..1530, 1920..2191, 2248..2327, 3928..4042, 4305..4613

Seq. ID OJ990305\_12.9819.C80  
Strand +  
End 4613  
Method GENSCAN  
End 4613  
Score .5

Seq. No. 21639  
Gene No. 45173  
Start 362  
Name OJ990305\_12.9819.C80.o1.gp  
Start 3262  
GI 3107480  
Exons 3262..3657

Seq. ID OJ990305\_12.9819.C80  
Strand +  
End 4613  
Method AAT/GAP  
End 3657  
Score 660

Seq. No. 21639  
Gene No. 45173  
Start 362  
Name OJ990305\_12.9819.C80.o1.tm  
Start 4317  
GI none  
Exons 4317..4469, 4334..4459, 4336..4467, 4482..4610, 4547..4579, 4560..4601

Seq. ID OJ990305\_12.9819.C80  
Strand +  
End 4613  
Method TBLASTX:Maize  
End 4610  
Score 179

Seq. No. 21639  
Gene No. 45173  
Start 362  
Name OJ990305\_12.9819.C80.o1.tc  
Start 4319  
GI none  
Exons 4319..4450, 4319..4459, 4320..4478, 4482..4535, 4551..4604

Seq. ID OJ990305\_12.9819.C80  
Strand +  
End 4613  
Method TBLASTX:Cress  
End 4604  
Score 68

Seq. No. 21639  
Gene No. 45173  
Start 362  
Name OJ990305\_12.9819.C80.o1.ts  
Start 4334  
GI none  
Exons 4334..4459, 4335..4508, 4482..4604, 4547..4579

Seq. ID OJ990305\_12.9819.C80  
Strand +  
End 4613  
Method TBLASTX:Soybean  
End 4604  
Score 193

Seq. No. 21640  
Gene No. 45174  
Start 1  
Name OJ990305\_12.9819.C81.o1.np

Seq. ID OJ990305\_12.9819.C81  
Strand +  
End 1391  
Method AAT/NAP

Start	1	End	1391
GI	6453866	Score	206
Exons	1..303, 1321..1391		
GI Descrip.	(AC011717) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	21640	Seq. ID	OJ990305_12.9819.C81
Gene No.	45174	Strand	+
Start	1	End	1391
Name	OJ990305_12.9819.C81.o1.tc	Method	TBLASTX:Cress
Start	4	End	321
GI	none	Score	67
Exons	4..153, 21..152, 22..162, 23..181, 35..178, 185..238, 253..321, 254..307		

Seq. No.	21640	Seq. ID	OJ990305_12.9819.C81
Gene No.	45174	Strand	+
Start	1	End	1391
Name	OJ990305_12.9819.C81.o1.tm	Method	TBLASTX:Maize
Start	20	End	340
GI	none	Score	180
Exons	20..172, 37..162, 39..170, 185..340, 250..327		

Seq. No.	21640	Seq. ID	OJ990305_12.9819.C81
Gene No.	45174	Strand	+
Start	1	End	1391
Name	OJ990305_12.9819.C81.o1.ts	Method	TBLASTX:Soybean
Start	37	End	307
GI	none	Score	188
Exons	37..162, 38..211, 185..307, 250..306		

Seq. No.	21640	Seq. ID	OJ990305_12.9819.C81
Gene No.	45174	Strand	+
Start	1	End	1391
Name	OJ990305_12.9819.C81.o1.gs	Method	GENSCAN
Start	83	End	655
GI	none	Score	.73
Exons	83..316, 553..655		

Seq. No.	21641	Seq. ID	OJ990305_12.9819.C82
Gene No.	45175	Strand	+
Start	71	End	690
Name	OJ990305_12.9819.C82.o1.gs	Method	GENSCAN
Start	71	End	690
GI	none	Score	.56
Exons	71..157, 547..690		

Seq. No.	21642	Seq. ID	OJ990305_12.9819.C83
Gene No.	45176	Strand	+
Start	561	End	777
Name	OJ990305_12.9819.C83.o1.gs	Method	GENSCAN
Start	561	End	777
GI	none	Score	.55
Exons	561..777		

Seq. No.	21643	Seq. ID	OJ990305_12.9819.C84
Gene No.	45177	Strand	+
Start	1	End	593

Name OJ990305\_12.9819.C84.o1.np Method AAT/NAP  
 Start 1 End 396  
 GI 6630696 Score 515  
 Exons 1..396  
 GI Descrip. (AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]

Seq. No. 21643 Seq. ID OJ990305\_12.9819.C84  
 Gene No. 45177 Strand +  
 Start 1 End 593  
 Name OJ990305\_12.9819.C84.o1.tw Method TBLASTX:Wheat  
 Start 67 End 260  
 GI none Score 254  
 Exons 67..258, 76..222, 129..260

Seq. No. 21643 Seq. ID OJ990305\_12.9819.C84  
 Gene No. 45177 Strand +  
 Start 1 End 593  
 Name OJ990305\_12.9819.C84.o1.tm Method TBLASTX:Maize  
 Start 270 End 593  
 GI none Score 91  
 Exons 270..359, 270..359, 271..360, 272..361, 399..497, 409..510, 409..495, 549..593, 556..591

Seq. No. 21644 Seq. ID OJ990305\_12.9819.C85  
 Gene No. 45178 Strand -  
 Start 1 End 995  
 Name OJ990305\_12.9819.C85.o1.np Method AAT/NAP  
 Start 1 End 995  
 GI 6498441 Score 1440  
 Exons 1..995  
 GI Descrip. (AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]

Seq. No. 21644 Seq. ID OJ990305\_12.9819.C85  
 Gene No. 45178 Strand -  
 Start 1 End 995  
 Name OJ990305\_12.9819.C85.o1.tm Method TBLASTX:Maize  
 Start 24 End 311  
 GI none Score 188  
 Exons 24..311, 25..294

Seq. No. 21644 Seq. ID OJ990305\_12.9819.C85  
 Gene No. 45178 Strand -  
 Start 1 End 995  
 Name OJ990305\_12.9819.C85.o1.tw Method TBLASTX:Wheat  
 Start 30 End 413  
 GI none Score 110  
 Exons 30..413, 97..282, 120..299

Seq. No. 21644 Seq. ID OJ990305\_12.9819.C85  
 Gene No. 45178 Strand -  
 Start 1 End 995  
 Name OJ990305\_12.9819.C85.o1.gs Method GENSCAN  
 Start 339 End 920

GI	none	Score	.92
Exons	339..920		
Seq. No.	21644	Seq. ID	OJ990305_12.9819.C85
Gene No.	45178	Strand	-
Start	1	End	995
Name	OJ990305_12.9819.C85.o2.tw	Method	TBLASTX:Wheat
Start	513	End	825
GI	none	Score	69
Exons	513..764, 718..825		

Seq. No.	21645	Seq. ID	OJ990305_12.9819.C86
Gene No.	45179	Strand	+
Start	257	End	287
Name	OJ990305_12.9819.C86.o1.gs	Method	GENSCAN
Start	257	End	287
GI	none	Score	.53
Exons	257..287		

Seq. No.	21646	Seq. ID	OJ990305_12.9819.C87
Gene No.	45180	Strand	+
Start	166	End	2810
Name	OJ990305_12.9819.C87.o1.np	Method	AAT/NAP
Start	166	End	2810
GI	5932552	Score	161
Exons	166..343, 426..493, 584..644, 1209..1288, 1401..1452, 1883..2041, 2751..2810		
GI Descrip.	(AC009465) unknown protein [Arabidopsis thaliana]		

Seq. No.	21646	Seq. ID	OJ990305_12.9819.C87
Gene No.	45180	Strand	+
Start	166	End	2810
Name	OJ990305_12.9819.C87.o1.gs	Method	GENSCAN
Start	180	End	545
GI	none	Score	.93
Exons	180..343, 426..545		

Seq. No.	21646	Seq. ID	OJ990305_12.9819.C87
Gene No.	45180	Strand	+
Start	166	End	2810
Name	OJ990305_12.9819.C87.o1.gp	Method	AAT/GAP
Start	233	End	1520
GI	uC-osflM202046a07b1	Score	661
Exons	233..343, 426..493, 584..644, 976..1013, 1220..1288, 1401..1520		
GI Descrip.	'5932552/gb AAD57007.1 AC009465_21 4.0e-30 (AC009465) unknown protein [Arabidopsis thaliana]'		

Seq. No.	21646	Seq. ID	OJ990305_12.9819.C87
Gene No.	45181	Strand	-
Start	1738	End	2384
Name	OJ990305_12.9819.C87.o2.gs	Method	GENSCAN
Start	1738	End	2384
GI	none	Score	.8
Exons	1738..1803, 2125..2168, 2267..2384		

Seq. No.	21647	Seq. ID	OJ990305_12.9819.C88
Gene No.	45182	Strand	+

Start	1	End	1063
Name	OJ990305_12.9819.C88.o1.gp	Method	AAT/GAP
Start	1	End	558
GI	uC-osflM202046a07b1	Score	319
Exons	1..42, 260..328, 441..558		
GI Descrip.	'5932552/gb AAD57007.1 AC009465_21 4.0e-30 (AC009465) unknown protein [Arabidopsis thaliana]'		

Seq. No.	21647	Seq. ID	OJ990305_12.9819.C88
Gene No.	45182	Strand	+
Start	1	End	1063
Name	OJ990305_12.9819.C88.o1.np	Method	AAT/NAP
Start	254	End	830
GI	5932552	Score	229
Exons	254..328, 441..830		
GI Descrip.	(AC009465) unknown protein [Arabidopsis thaliana]		

Seq. No.	21647	Seq. ID	OJ990305_12.9819.C88
Gene No.	45182	Strand	+
Start	1	End	1063
Name	OJ990305_12.9819.C88.o1.gs	Method	GENSCAN
Start	279	End	1063
GI	none	Score	.81
Exons	279..328, 441..762, 1034..1063		

Seq. No.	21647	Seq. ID	OJ990305_12.9819.C88
Gene No.	45183	Strand	-
Start	2094	End	3233
Name	OJ990305_12.9819.C88.o2.tm	Method	TBLASTX:Maize
Start	255	End	783
GI	none	Score	124
Exons	255..344, 257..367, 430..522, 431..523, 440..523, 441..527, 442..534, 637..783, 637..759, 639..764		

Seq. No.	21647	Seq. ID	OJ990305_12.9819.C88
Gene No.	45183	Strand	-
Start	2094	End	3233
Name	OJ990305_12.9819.C88.o1.tm	Method	TBLASTX:Maize
Start	1939	End	3233
GI	none	Score	44
Exons	1939..2007, 1997..2032, 2093..2287, 2094..2285, 2094..2357, 2110..2295, 2284..2358, 2285..2383, 2292..2360, 2314..2388, 2343..2378, 2379..2603, 2380..2607, 2697..2783, 2719..2784, 2720..2785, 2721..2792, 2841..2954, 2841..2909, 2854..2949, 2857..2904, 3034..3225, 3038..3199, 3045..3233, 3150..3233		

Seq. No.	21647	Seq. ID	OJ990305_12.9819.C88
Gene No.	45183	Strand	-
Start	2094	End	3233
Name	OJ990305_12.9819.C88.o2.gs	Method	GENSCAN
Start	2094	End	3216
GI	none	Score	.81
Exons	2094..2587, 2987..3216		

Seq. No.	21647	Seq. ID	OJ990305_12.9819.C88
Gene No.	45183	Strand	-
Start	2094	End	3233

Name	OJ990305_12.9819.C88.o2.gp	Method	AAT/GAP
Start	2724	End	2941
GI	3107734	Score	254
Exons	2724..2782, 2854..2941		
GI Descrip.	2244834/emb CAB10256.1  2.0e-16 (Z97337) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	21648	Seq. ID	OJ990305_12.9819.C89
Gene No.	45184	Strand	-
Start	514	End	618
Name	OJ990305_12.9819.C89.o1.gp	Method	AAT/GAP
Start	514	End	618
GI	LIB3477-003-P1-K1-E9	Score	131
Exons	514..618		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	21648	Seq. ID	OJ990305_12.9819.C89
Gene No.	45185	Strand	-
Start	2643	End	4102
Name	OJ990305_12.9819.C89.o2.gp	Method	AAT/GAP
Start	2401	End	2777
GI	2428968	Score	730
Exons	2401..2777		

Seq. No.	21648	Seq. ID	OJ990305_12.9819.C89
Gene No.	45185	Strand	-
Start	2643	End	4102
Name	OJ990305_12.9819.C89.o1.np	Method	AAT/NAP
Start	2615	End	4102
GI	1711508	Score	925
Exons	2615..2935, 3015..3129, 3265..3422, 3500..3600, 3764..3912, 4007..4102		
GI Descrip.	SIGNAL RECOGNITION PARTICLE 54 KD PROTEIN 1 (SRP54) gi 1020000 (L48284) signal recognition particle 54 kDa subunit [Hordeum vulgare]		

Seq. No.	21648	Seq. ID	OJ990305_12.9819.C89
Gene No.	45185	Strand	-
Start	2643	End	4102
Name	OJ990305_12.9819.C89.o1.tm	Method	TBLASTX:Maize
Start	2622	End	4042
GI	none	Score	60
Exons	2622..2774, 2650..2736, 2789..2938, 2797..2937, 2811..2939, 3008..3130, 3014..3130, 3015..3137, 3016..3141, 3016..3132, 3250..3429, 3262..3399, 3263..3427, 3498..3605, 3499..3600, 3760..3912, 3763..3912, 4007..4042, 4008..4040		

Seq. No.	21648	Seq. ID	OJ990305_12.9819.C89
Gene No.	45185	Strand	-
Start	2643	End	4102
Name	OJ990305_12.9819.C89.o1.gs	Method	GENSCAN
Start	2643	End	3912
GI	none	Score	.95
Exons	2643..2935, 3015..3129, 3265..3422, 3500..3600, 3764..3912		

Seq. No.	21648	Seq. ID	OJ990305_12.9819.C89
Gene No.	45185	Strand	-
Start	2643	End	4102
Name	OJ990305_12.9819.C89.o1.ts	Method	TBLASTX:Soybean
Start	2655	End	4042
GI	none	Score	66
Exons	2655..2735, 2656..2736, 2797..2937, 2805..2936, 3008..3130, 3014..3130, 3019..3138, 3019..3132, 3253..3426, 3262..3399, 3276..3419, 3401..3442, 3478..3597, 3479..3598, 3498..3605, 3499..3600, 3507..3608, 3760..3912, 3768..3914, 3769..3912, 4004..4042, 4007..4042		

Seq. No.	21648	Seq. ID	OJ990305_12.9819.C89
Gene No.	45185	Strand	-
Start	2643	End	4102
Name	OJ990305_12.9819.C89.o1.tc	Method	TBLASTX:Cress
Start	2809	End	3117
GI	none	Score	129
Exons	2809..2937, 2814..2933, 3008..3115, 3019..3117		

Seq. No.	21649	Seq. ID	OJ990305_12.9819.C90
Gene No.	45186	Strand	+
Start	4338	End	6194
Name	OJ990305_12.9819.C90.o2.gs	Method	GENSCAN
Start	4338	End	6194
GI	none	Score	.53
Exons	4338..4722, 4745..4845, 4888..5298, 5922..6194		

Seq. No.	21649	Seq. ID	OJ990305_12.9819.C90
Gene No.	45187	Strand	-
Start	1	End	4964
Name	OJ990305_12.9819.C90.o1.np	Method	AAT/NAP
Start	1	End	1485
GI	1711511	Score	643
Exons	1..291, 1031..1130, 1255..1485		
GI Descrip.	SIGNAL RECOGNITION PARTICLE 54 KD PROTEIN 2 (SRP54) gi 1020002 (L48285) signal recognition particle 54 kDa subunit [Hordeum vulgare]		

Seq. No.	21649	Seq. ID	OJ990305_12.9819.C90
Gene No.	45187	Strand	-
Start	1	End	4964
Name	OJ990305_12.9819.C90.o2.np	Method	AAT/NAP
Start	1	End	4964
GI	6624711	Score	110
Exons	1..114, 2933..3074, 4905..4964		
GI Descrip.	(AJ243961) hypothetical protein [Oryza sativa]		

Seq. No.	21649	Seq. ID	OJ990305_12.9819.C90
Gene No.	45187	Strand	-
Start	1	End	4964
Name	OJ990305_12.9819.C90.o2.ts	Method	TBLASTX:Soybean
Start	128	End	293
GI	none	Score	163
Exons	128..292, 138..293		

Seq. No.	21649	Seq. ID	OJ990305_12.9819.C90
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Gene No.	45187	Strand	-
Start	1	End	4964
Name	OJ990305_12.9819.C90.o1.tc	Method	TBLASTX:Cress
Start	136	End	1095
GI	none	Score	100
Exons	136..273, 138..293, 140..292, 1029..1094, 1030..1095		
Seq. No.	21649	Seq. ID	OJ990305_12.9819.C90
Gene No.	45187	Strand	-
Start	1	End	4964
Name	OJ990305_12.9819.C90.o1.gs	Method	GENSCAN
Start	138	End	2965
GI	none	Score	.61
Exons	138..291, 1031..1130, 1255..1625, 1810..1891, 1951..2062, 2620..2767, 2887..2965		
Seq. No.	21649	Seq. ID	OJ990305_12.9819.C90
Gene No.	45187	Strand	-
Start	1	End	4964
Name	OJ990305_12.9819.C90.o1.tm	Method	TBLASTX:Maize
Start	138	End	1534
GI	none	Score	194
Exons	138..293, 140..292, 1029..1130, 1030..1131, 1255..1488, 1256..1534		
Seq. No.	21649	Seq. ID	OJ990305_12.9819.C90
Gene No.	45187	Strand	-
Start	1	End	4964
Name	OJ990305_12.9819.C90.o1.ts	Method	TBLASTX:Soybean
Start	1078	End	1497
GI	none	Score	65
Exons	1078..1131, 1080..1130, 1255..1497, 1256..1486, 1276..1488		
Seq. No.	21649	Seq. ID	OJ990305_12.9819.C90
Gene No.	45187	Strand	-
Start	1	End	4964
Name	OJ990305_12.9819.C90.o2.tc	Method	TBLASTX:Cress
Start	1250	End	1488
GI	none	Score	163
Exons	1250..1486, 1255..1485, 1300..1488		
Seq. No.	21650	Seq. ID	OJ990305_12.9819.C91
Gene No.	45188	Strand	+
Start	1	End	3571
Name	OJ990305_12.9819.C91.o2.np	Method	AAT/NAP
Start	1	End	3571
GI	5042454	Score	304
Exons	1..221, 355..481, 2215..2368, 3044..3227, 3518..3571		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		
Seq. No.	21650	Seq. ID	OJ990305_12.9819.C91
Gene No.	45189	Strand	-
Start	1	End	1995
Name	OJ990305_12.9819.C91.o1.np	Method	AAT/NAP
Start	1	End	1995
GI	6907089	Score	2922
Exons	1..638, 733..1995		



GI Descrip. (AP001129) hypothetical protein [Oryza sativa]

Seq. No.	21651	Seq. ID	OJ990305_12.9819.C92
Gene No.	45190	Strand	+
Start	8966	End	10978
Name	OJ990305_12.9819.C92.o3.gs	Method	GENSCAN
Start	8966	End	10848
GI	none	Score	.53
Exons	8966..9106, 9402..9612, 9763..10848		

Seq. No.	21651	Seq. ID	OJ990305_12.9819.C92
Gene No.	45190	Strand	+
Start	8966	End	10978
Name	OJ990305_12.9819.C92.o3.np	Method	AAT/NAP
Start	8966	End	10978
GI	5902444	Score	2523
Exons	8966..10978		

GI Descrip. (AB030283) GAG-POL precursor [Oryza sativa]

Seq. No.	21651	Seq. ID	OJ990305_12.9819.C92
Gene No.	45191	Strand	-
Start	1	End	3990
Name	OJ990305_12.9819.C92.o1.np	Method	AAT/NAP
Start	1	End	3990
GI	5932552	Score	987
Exons	1..125, 208..371, 550..614, 935..1008, 1148..1285, 1540..1627, 1857..1919, 2007..2086, 2590..2646, 2765..2837, 3069..3125, 3165..3322, 3413..3613, 3706..3990		

GI Descrip. (AC009465) unknown protein [Arabidopsis thaliana]

Seq. No.	21651	Seq. ID	OJ990305_12.9819.C92
Gene No.	45191	Strand	-
Start	1	End	3990
Name	OJ990305_12.9819.C92.o1.gp	Method	AAT/GAP
Start	58	End	318
GI	uC-osf1M202046a07b1	Score	305
Exons	58..125, 208..318		
GI Descrip.	'5932552/gb AAD57007.1 AC009465_21 4.0e-30 (AC009465) unknown protein [Arabidopsis thaliana]'		

Seq. No.	21651	Seq. ID	OJ990305_12.9819.C92
Gene No.	45191	Strand	-
Start	1	End	3990
Name	OJ990305_12.9819.C92.o1.gs	Method	GENSCAN
Start	208	End	3879
GI	none	Score	.82
Exons	208..371, 984..1008, 1148..1249, 1540..1627, 1857..1919, 2007..2086, 2590..2675, 3352..3613, 3709..3879		

Seq. No.	21651	Seq. ID	OJ990305_12.9819.C92
Gene No.	45192	Strand	-
Start	4735	End	8072
Name	OJ990305_12.9819.C92.o1.tm	Method	TBLASTX:Maize
Start	225	End	1925
GI	none	Score	126
Exons	225..371, 227..370, 232..372, 233..373, 548..613, 549..617, 549..614, 931..1035, 931..1008, 1137..1244, 1145..1252,		

1146..1247, 1157..1252, 1348..1446, 1349..1447, 1350..1448,  
1540..1629, 1541..1633, 1856..1921, 1856..1918, 1857..1925

Seq. No.	21651	Seq. ID	OJ990305_12.9819.C92
Gene No.	45192	Strand	-
Start	4735	End	8072
Name	OJ990305_12.9819.C92.o4.tm	Method	TBLASTX:Maize
Start	2009	End	3263
GI	none	Score	91
Exons	2009..2086, 2545..2631, 2549..2641, 2557..2652, 2765..2857, 2766..2858, 3065..3154, 3066..3146, 3227..3262, 3231..3263		

Seq. No.	21651	Seq. ID	OJ990305_12.9819.C92
Gene No.	45192	Strand	-
Start	4735	End	8072
Name	OJ990305_12.9819.C92.o2.ts	Method	TBLASTX:Soybean
Start	3227	End	3856
GI	none	Score	44
Exons	3227..3319, 3244..3324, 3416..3562, 3426..3479, 3709..3765, 3791..3856, 3793..3855		

Seq. No.	21651	Seq. ID	OJ990305_12.9819.C92
Gene No.	45192	Strand	-
Start	4735	End	8072
Name	OJ990305_12.9819.C92.o1.tc	Method	TBLASTX:Cress
Start	3446	End	3864
GI	none	Score	125
Exons	3446..3610, 3700..3864, 3710..3856		

Seq. No.	21651	Seq. ID	OJ990305_12.9819.C92
Gene No.	45192	Strand	-
Start	4735	End	8072
Name	OJ990305_12.9819.C92.o2.tm	Method	TBLASTX:Maize
Start	3492	End	3877
GI	none	Score	123
Exons	3492..3650, 3494..3610, 3495..3611, 3499..3654, 3718..3795, 3718..3876, 3749..3877		

Seq. No.	21651	Seq. ID	OJ990305_12.9819.C92
Gene No.	45192	Strand	-
Start	4735	End	8072
Name	OJ990305_12.9819.C92.o2.gs	Method	GENSCAN
Start	4735	End	8031
GI	none	Score	.78
Exons	4735..4806, 5140..5280, 5342..5407, 5842..5919, 6109..6155, 6289..6394, 6471..6548, 7072..7188, 7585..7650, 7765..8031		

Seq. No.	21651	Seq. ID	OJ990305_12.9819.C92
Gene No.	45192	Strand	-
Start	4735	End	8072
Name	OJ990305_12.9819.C92.o2.gp	Method	AAT/GAP
Start	4823	End	5434
GI	80578_1.R1084	Score	819
Exons	4823..5203, 5342..5434		
GI Descrip.	'3892051/gb AAC78260.1 AAC78260 2.0e-15 (AC002330) predicted NADH dehydrogenase 24 kD subunit [Arabidopsis thaliana]'		

Seq. No.	21651	Seq. ID	OJ990305_12.9819.C92
Gene No.	45192	Strand	-
Start	4735	End	8072
Name	OJ990305_12.9819.C92.o3.tm	Method	TBLASTX:Maize
Start	4978	End	7797
GI	none	Score	40
Exons	4978..5040, 4980..5012, 5080..5196, 5087..5203, 5088..5204, 5103..5204, 5342..5413, 5351..5410, 5840..5971, 5842..5919, 6107..6154, 6108..6155, 6108..6155, 6109..6156, 6290..6394, 6291..6395, 6291..6395, 6438..6548, 6444..6548, 6469..6549, 6469..6567, 7066..7191, 7072..7191, 7582..7650, 7583..7648, 7750..7797, 7765..7794		

Seq. No.	21651	Seq. ID	OJ990305_12.9819.C92
Gene No.	45192	Strand	-
Start	4735	End	8072
Name	OJ990305_12.9819.C92.o1.ts	Method	TBLASTX:Soybean
Start	5096	End	7794
GI	none	Score	99
Exons	5096..5200, 5100..5201, 5342..5407, 5833..5919, 5833..5919, 5846..5935, 6107..6142, 6109..6156, 6110..6157, 6290..6394, 6294..6395, 6444..6548, 6469..6546, 7066..7191, 7070..7189, 7073..7198, 7582..7650, 7583..7648, 7750..7794		

Seq. No.	21651	Seq. ID	OJ990305_12.9819.C92
Gene No.	45192	Strand	-
Start	4735	End	8072
Name	OJ990305_12.9819.C92.o2.np	Method	AAT/NAP
Start	5099	End	8022
GI	6647650	Score	783
Exons	5099..5203, 5342..5407, 5842..5919, 6109..6155, 6289..6394, 6471..6548, 7072..7188, 7585..7653, 7957..8022		
GI Descrip.	NADH-UBIQUINONE OXIDOREDUCTASE 24 KD SUBUNIT PRECURSOR gi 3892051 gb AAC78260.1 AAC78260 (AC002330) predicted NADH dehydrogenase 24 kD subunit [Arabidopsis thaliana]		

Seq. No.	21651	Seq. ID	OJ990305_12.9819.C92
Gene No.	45192	Strand	-
Start	4735	End	8072
Name	OJ990305_12.9819.C92.o3.gp	Method	AAT/GAP
Start	5890	End	8072
GI	24005_1.R1084	Score	1136
Exons	5890..5919, 6109..6155, 6289..6394, 6471..6548, 7072..7188, 7585..7650, 7765..7821, 7930..8072		
GI Descrip.	'3892051/gb AAC78260.1 AAC78260 1.0e-73 (AC002330) predicted NADH dehydrogenase 24 kD subunit [Arabidopsis thaliana]'		

Seq. No.	21651	Seq. ID	OJ990305_12.9819.C92
Gene No.	45192	Strand	-
Start	4735	End	8072
Name	OJ990305_12.9819.C92.o2.tc	Method	TBLASTX:Cress
Start	6321	End	7794
GI	none	Score	105
Exons	6321..6398, 6326..6394, 6444..6548, 6469..6546, 7066..7191, 7070..7189, 7075..7191, 7564..7650, 7583..7648, 7750..7794		

Seq. No.	21651	Seq. ID	OJ990305_12.9819.C92
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Gene No.	45193	Strand	
Start	10259	End	10661
Name	OJ990305_12.9819.C92.o1.tw	Method	TBLASTX:Wheat
Start	10259	End	10661
GI	none	Score	286
Exons	10259..10567, 10260..10661		
Seq. No.	21652	Seq. ID	OJ990305_12.9819.C93
Gene No.	45194	Strand	+
Start	98	End	3732
Name	OJ990305_12.9819.C93.o1.gs	Method	GENSCAN
Start	98	End	2585
GI	none	Score	.78
Exons	98..217, 305..689, 786..1866, 2064..2585		
Seq. No.	21652	Seq. ID	OJ990305_12.9819.C93
Gene No.	45194	Strand	+
Start	98	End	3732
Name	OJ990305_12.9819.C93.o1.np	Method	AAT/NAP
Start	769	End	3729
GI	5902445	Score	4446
Exons	769..3729		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		
Seq. No.	21652	Seq. ID	OJ990305_12.9819.C93
Gene No.	45194	Strand	+
Start	98	End	3732
Name	OJ990305_12.9819.C93.o2.gs	Method	GENSCAN
Start	3373	End	3732
GI	none	Score	.9
Exons	3373..3732		
Seq. No.	21652	Seq. ID	OJ990305_12.9819.C93
Gene No.	45195	Strand	+
Start	9861	End	10246
Name	OJ990305_12.9819.C93.o1.gp	Method	AAT/GAP
Start	9861	End	10246
GI	LIB3475-006-P1-K1-D9	Score	561
Exons	9861..10246		
GI Descrip.	'5923669/gb AAD56320.1 AC009326_7 2.0e-09 (AC009326) hypothetical protein [Arabidopsis thaliana]'		
Seq. No.	21652	Seq. ID	OJ990305_12.9819.C93
Gene No.	45195	Strand	+
Start	9861	End	10246
Name	OJ990305_12.9819.C93.o2.gp	Method	AAT/GAP
Start	9861	End	10246
GI	LIB3475-006-P1-K1-D9	Score	562
Exons	9861..10246		
GI Descrip.	'5923669/gb AAD56320.1 AC009326_7 2.0e-09 (AC009326) hypothetical protein [Arabidopsis thaliana]'		
Seq. No.	21652	Seq. ID	OJ990305_12.9819.C93
Gene No.	45196	Strand	-
Start	4078	End	6981
Name	OJ990305_12.9819.C93.o5.tw	Method	TBLASTX:Wheat
Start	88	End	471

GI	none	Score	335
Exons	88..471, 213..455		
Seq. No.	21652	Seq. ID	OJ990305_12.9819.C93
Gene No.	45196	Strand	-
Start	4078	End	6981
Name	OJ990305_12.9819.C93.o5.tm	Method	TBLASTX:Maize
Start	345	End	522
GI	none	Score	187
Exons	345..470, 346..522		
Seq. No.	21652	Seq. ID	OJ990305_12.9819.C93
Gene No.	45196	Strand	-
Start	4078	End	6981
Name	OJ990305_12.9819.C93.o1.tw	Method	TBLASTX:Wheat
Start	714	End	1170
GI	none	Score	490
Exons	714..1169, 715..1170		
Seq. No.	21652	Seq. ID	OJ990305_12.9819.C93
Gene No.	45196	Strand	-
Start	4078	End	6981
Name	OJ990305_12.9819.C93.o3.ts	Method	TBLASTX:Soybean
Start	754	End	1119
GI	none	Score	131
Exons	754..978, 985..1119		
Seq. No.	21652	Seq. ID	OJ990305_12.9819.C93
Gene No.	45196	Strand	-
Start	4078	End	6981
Name	OJ990305_12.9819.C93.o2.tm	Method	TBLASTX:Maize
Start	843	End	1200
GI	none	Score	373
Exons	843..1190, 844..1200		
Seq. No.	21652	Seq. ID	OJ990305_12.9819.C93
Gene No.	45196	Strand	-
Start	4078	End	6981
Name	OJ990305_12.9819.C93.o2.tw	Method	TBLASTX:Wheat
Start	1285	End	1709
GI	none	Score	405
Exons	1285..1704, 1329..1709		
Seq. No.	21652	Seq. ID	OJ990305_12.9819.C93
Gene No.	45196	Strand	-
Start	4078	End	6981
Name	OJ990305_12.9819.C93.o1.ts	Method	TBLASTX:Soybean
Start	1333	End	1764
GI	none	Score	286
Exons	1333..1764, 1380..1538, 1396..1677, 1560..1730		
Seq. No.	21652	Seq. ID	OJ990305_12.9819.C93
Gene No.	45196	Strand	-
Start	4078	End	6981
Name	OJ990305_12.9819.C93.o3.tm	Method	TBLASTX:Maize
Start	1431	End	1875
GI	none	Score	267

Exons 1431..1685, 1432..1686, 1474..1692, 1707..1838, 1708..1851, 1849..1875

Seq. No.	21652	Seq. ID	OJ990305_12.9819.C93
Gene No.	45196	Strand	-
Start	4078	End	6981
Name	OJ990305_12.9819.C93.o6.tw	Method	TBLASTX:Wheat
Start	1711	End	1932
GI	none	Score	244
Exons	1711..1932, 1713..1910		

Seq. No.	21652	Seq. ID	OJ990305_12.9819.C93
Gene No.	45196	Strand	-
Start	4078	End	6981
Name	OJ990305_12.9819.C93.o2.ts	Method	TBLASTX:Soybean
Start	1989	End	2377
GI	none	Score	87
Exons	1989..2093, 1997..2092, 2129..2377, 2133..2375		

Seq. No.	21652	Seq. ID	OJ990305_12.9819.C93
Gene No.	45196	Strand	-
Start	4078	End	6981
Name	OJ990305_12.9819.C93.o4.tw	Method	TBLASTX:Wheat
Start	1998	End	2420
GI	none	Score	378
Exons	1998..2420, 2000..2344		

Seq. No.	21652	Seq. ID	OJ990305_12.9819.C93
Gene No.	45196	Strand	-
Start	4078	End	6981
Name	OJ990305_12.9819.C93.o6.tm	Method	TBLASTX:Maize
Start	2250	End	2504
GI	none	Score	182
Exons	2250..2504, 2258..2365		

Seq. No.	21652	Seq. ID	OJ990305_12.9819.C93
Gene No.	45196	Strand	-
Start	4078	End	6981
Name	OJ990305_12.9819.C93.o3.tw	Method	TBLASTX:Wheat
Start	2737	End	3124
GI	none	Score	386
Exons	2737..3048, 2738..3124, 3079..3123		

Seq. No.	21652	Seq. ID	OJ990305_12.9819.C93
Gene No.	45196	Strand	-
Start	4078	End	6981
Name	OJ990305_12.9819.C93.o1.tm	Method	TBLASTX:Maize
Start	2738	End	3094
GI	none	Score	392
Exons	2738..3055, 2752..3057, 3047..3094		

Seq. No.	21652	Seq. ID	OJ990305_12.9819.C93
Gene No.	45196	Strand	-
Start	4078	End	6981
Name	OJ990305_12.9819.C93.o8.tw	Method	TBLASTX:Wheat
Start	3252	End	3720
GI	none	Score	118

Exons 3252..3359, 3260..3328, 3382..3597, 3583..3720

Seq. No.	21652	Seq. ID	OJ990305_12.9819.C93
Gene No.	45196	Strand	-
Start	4078	End	6981
Name	OJ990305_12.9819.C93.o4.tm	Method	TBLASTX:Maize
Start	3427	End	3681
GI	none	Score	158
Exons	3427..3600, 3540..3599, 3579..3680, 3580..3681		

Seq. No.	21652	Seq. ID	OJ990305_12.9819.C93
Gene No.	45196	Strand	-
Start	4078	End	6981
Name	OJ990305_12.9819.C93.o2.np	Method	AAT/NAP
Start	4063	End	6981
GI	6691716	Score	2641
Exons	4063..4511, 4585..4697, 4848..4951, 5025..5212, 5290..5469, 5546..5648, 5731..5900, 6097..6981		

GI Descrip. (AP000492) hypothetical protein [Oryza sativa]  
gi|6691717|dbj|BAA89397.1| (AP000570) hypothetical protein  
[Oryza sativa]

Seq. No.	21652	Seq. ID	OJ990305_12.9819.C93
Gene No.	45196	Strand	-
Start	4078	End	6981
Name	OJ990305_12.9819.C93.o3.gs	Method	GENSCAN
Start	4078	End	6981
GI	none	Score	.82
Exons	4078..4511, 4585..4704, 4762..5004, 5290..5648, 5731..5951, 6097..6981		

Seq. No.	21652	Seq. ID	OJ990305_12.9819.C93
Gene No.	45196	Strand	-
Start	4078	End	6981
Name	OJ990305_12.9819.C93.o7.tw	Method	TBLASTX:Wheat
Start	6571	End	6861
GI	none	Score	204
Exons	6571..6861		

Seq. No.	21653	Seq. ID	OJ990305_12.9819.C94
Gene No.	45197	Strand	+
Start	1855	End	2892
Name	OJ990305_12.9819.C94.o1.gs	Method	GENSCAN
Start	1855	End	2892
GI	none	Score	.91
Exons	1855..1992, 2169..2234, 2580..2892		

Seq. No.	21654	Seq. ID	OJ990305_12.9819.C95
Gene No.	45198	Strand	-
Start	1	End	1784
Name	OJ990305_12.9819.C95.o1.np	Method	AAT/NAP
Start	1	End	1073
GI	6714620	Score	517
Exons	1..508, 875..1073		
GI Descrip.	(AB030004) chalcone synthase [Equisetum arvense]		

Seq. No.	21654	Seq. ID	OJ990305_12.9819.C95
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Gene No.	45198	Strand	-
Start	1	End	1784
Name	OJ990305_12.9819.C95.ol.tm	Method	TBLASTX:Maize
Start	68	End	1061
GI	none	Score	132
Exons	68..196, 69..257, 69..506, 76..495, 322..507, 873..1061		
Seq. No.	21654	Seq. ID	OJ990305_12.9819.C95
Gene No.	45198	Strand	-
Start	1	End	1784
Name	OJ990305_12.9819.C95.ol.ts	Method	TBLASTX:Soybean
Start	68	End	1010
GI	none	Score	188
Exons	68..163, 69..506, 79..507, 870..1010		
Seq. No.	21654	Seq. ID	OJ990305_12.9819.C95
Gene No.	45198	Strand	-
Start	1	End	1784
Name	OJ990305_12.9819.C95.ol.tc	Method	TBLASTX:Cress
Start	69	End	1038
GI	none	Score	93
Exons	69..506, 72..257, 73..495, 873..1016, 877..1038		
Seq. No.	21654	Seq. ID	OJ990305_12.9819.C95
Gene No.	45198	Strand	-
Start	1	End	1784
Name	OJ990305_12.9819.C95.ol.gs	Method	GENSCAN
Start	111	End	1784
GI	none	Score	.71
Exons	111..508, 875..1109, 1619..1784		
Seq. No.	21654	Seq. ID	OJ990305_12.9819.C95
Gene No.	45198	Strand	-
Start	1	End	1784
Name	OJ990305_12.9819.C95.ol.gp	Method	AAT/GAP
Start	201	End	540
GI	LIB3434-016-P1-K1-D4	Score	603
Exons	201..540		
GI Descrip.	'5852182/emb CAB55420.1  9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]'		
Seq. No.	21655	Seq. ID	OJ990305_12.9819.C96
Gene No.	45199	Strand	+
Start	1087	End	1780
Name	OJ990305_12.9819.C96.ol.gs	Method	GENSCAN
Start	1087	End	1780
GI	none	Score	.69
Exons	1087..1418, 1444..1780		
Seq. No.	21656	Seq. ID	OJ990305_12.9819.C98
Gene No.	45200	Strand	+
Start	97	End	739
Name	OJ990305_12.9819.C98.ol.tm	Method	TBLASTX:Maize
Start	37	End	561
GI	none	Score	67
Exons	37..138, 196..354, 267..353, 349..378, 424..561, 426..557		



Seq. No.	21656	Seq. ID	OJ990305_12.9819.C98
Gene No.	45200	Strand	+
Start	97	End	739
Name	OJ990305_12.9819.C98.o1.gs	Method	GENSCAN
Start	97	End	393
GI	none	Score	.84
Exons	97..393		

Seq. No.	21656	Seq. ID	OJ990305_12.9819.C98
Gene No.	45200	Strand	+
Start	97	End	739
Name	OJ990305_12.9819.C98.o1.tc	Method	TBLASTX:Cress
Start	97	End	576
GI	none	Score	51
Exons	97..219, 256..354, 267..353, 432..500, 436..576		

Seq. No.	21656	Seq. ID	OJ990305_12.9819.C98
Gene No.	45200	Strand	+
Start	97	End	739
Name	OJ990305_12.9819.C98.o1.np	Method	AAT/NAP
Start	97	End	739
GI	6723425	Score	284
Exons	97..739		

GI Descrip. (AL132965) putative protein [Arabidopsis thaliana]

Seq. No.	21656	Seq. ID	OJ990305_12.9819.C98
Gene No.	45200	Strand	+
Start	97	End	739
Name	OJ990305_12.9819.C98.o1.ts	Method	TBLASTX:Soybean
Start	226	End	669
GI	none	Score	140
Exons	226..375, 255..374, 435..551, 436..669, 454..663, 642..665		

Seq. No.	21657	Seq. ID	OJ990305_12.9819.C99
Gene No.	45201	Strand	+
Start	1	End	968
Name	OJ990305_12.9819.C99.o1.np	Method	AAT/NAP
Start	1	End	968
GI	6498441	Score	675
Exons	1..968		

GI Descrip. (AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]

Seq. No.	21657	Seq. ID	OJ990305_12.9819.C99
Gene No.	45201	Strand	+
Start	1	End	968
Name	OJ990305_12.9819.C99.o1.tm	Method	TBLASTX:Maize
Start	324	End	647
GI	none	Score	361
Exons	324..647, 341..634		

Seq. No.	21657	Seq. ID	OJ990305_12.9819.C99
Gene No.	45201	Strand	+
Start	1	End	968
Name	OJ990305_12.9819.C99.o1.tw	Method	TBLASTX:Wheat
Start	327	End	674

GI	none	Score	316
Exons	327..674, 344..640		
Seq. No.	21658	Seq. ID	OJ990305_12.9819.C100
Gene No.	45202	Strand	-
Start	9	End	2181
Name	OJ990305_12.9819.C100.ol.gs	Method	GENSCAN
Start	9	End	2181
GI	none	Score	.43
Exons	9..215, 833..964, 1028..1343, 2094..2181		
Seq. No.	21659	Seq. ID	OJ990305_12.9819.C101
Gene No.	45203	Strand	+
Start	537	End	1287
Name	OJ990305_12.9819.C101.ol.gp	Method	AAT/GAP
Start	537	End	1190
GI	LIB3474-003-P1-K1-E1	Score	244
Exons	537..586, 1090..1190		
GI Descrip.	'99733/pir  S19701 1.0e-34 hypothetical protein Hlflk - Arabidopsis thaliana (fragment) >gi_16482_emb_CAA44318_ (X62461) Hlflk [Arabidopsis thaliana]'		
Seq. No.	21659	Seq. ID	OJ990305_12.9819.C101
Gene No.	45203	Strand	+
Start	537	End	1287
Name	OJ990305_12.9819.C101.ol.tm	Method	TBLASTX:Maize
Start	538	End	1284
GI	none	Score	64
Exons	538..588, 539..589, 1076..1261, 1077..1283, 1077..1283, 1090..1284		
Seq. No.	21659	Seq. ID	OJ990305_12.9819.C101
Gene No.	45203	Strand	+
Start	537	End	1287
Name	OJ990305_12.9819.C101.ol.ts	Method	TBLASTX:Soybean
Start	539	End	1283
GI	none	Score	69
Exons	539..589, 1077..1283, 1089..1247, 1090..1281		
Seq. No.	21659	Seq. ID	OJ990305_12.9819.C101
Gene No.	45203	Strand	+
Start	537	End	1287
Name	OJ990305_12.9819.C101.ol.gs	Method	GENSCAN
Start	1090	End	1287
GI	none	Score	.88
Exons	1090..1287		
Seq. No.	21660	Seq. ID	OJ990305_12.9819.C102
Gene No.	45204	Strand	+
Start	1	End	611
Name	OJ990305_12.9819.C102.ol.np	Method	AAT/NAP
Start	1	End	611
GI	2880041	Score	262
Exons	1..251, 369..611		
GI Descrip.	(AC002340) unknown protein [Arabidopsis thaliana]		
Seq. No.	21660	Seq. ID	OJ990305_12.9819.C102

Gene No.	45205	Strand	-
Start	554	End	956
Name	OJ990305_12.9819.C102.ol.tm	Method	TBLASTX:Maize
Start	105	End	490
GI	none	Score	176
Exons	105..254, 105..251, 110..256, 360..407, 393..488, 395..490		
Seq. No.	21660	Seq. ID	OJ990305_12.9819.C102
Gene No.	45205	Strand	-
Start	554	End	956
Name	OJ990305_12.9819.C102.ol.ts	Method	TBLASTX:Soybean
Start	105	End	488
GI	none	Score	184
Exons	105..242, 105..227, 107..241, 351..488		
Seq. No.	21660	Seq. ID	OJ990305_12.9819.C102
Gene No.	45205	Strand	-
Start	554	End	956
Name	OJ990305_12.9819.C102.ol.gp	Method	AAT/GAP
Start	554	End	956
GI	none	Score	782
Exons	554..956		
Seq. No.	21661	Seq. ID	OJ990305_12.9819.C103
Gene No.	45206	Strand	+
Start	340	End	636
Name	OJ990305_12.9819.C103.ol.np	Method	AAT/NAP
Start	340	End	633
GI	1946362	Score	222
Exons	340..633		
GI Descrip.	(U93215) photosystem II reaction center 6.1KD protein [Arabidopsis thaliana]		
Seq. No.	21661	Seq. ID	OJ990305_12.9819.C103
Gene No.	45206	Strand	+
Start	340	End	636
Name	OJ990305_12.9819.C103.ol.gs	Method	GENSCAN
Start	366	End	636
GI	none	Score	.47
Exons	366..636		
Seq. No.	21661	Seq. ID	OJ990305_12.9819.C103
Gene No.	45207	Strand	-
Start	589	End	1002
Name	OJ990305_12.9819.C103.ol.gp	Method	AAT/GAP
Start	589	End	1002
GI	none	Score	721
Exons	589..1002		
Seq. No.	21662	Seq. ID	OJ990305_12.9819.C106
Gene No.	45208	Strand	-
Start	191	End	464
Name	OJ990305_12.9819.C106.ol.gs	Method	GENSCAN
Start	191	End	464
GI	none	Score	.69
Exons	191..464		

Seq. No.	21663	Seq. ID	OJ990305_12.9819.C107
Gene No.	45209	Strand	-
Start	165	End	739
Name	OJ990305_12.9819.C107.ol.np	Method	AAT/NAP
Start	165	End	739
GI	5042454	Score	166
Exons	165..394, 620..739		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	21664	Seq. ID	OJ990305_12.9819.C108
Gene No.	45210	Strand	+
Start	1	End	1305
Name	OJ990305_12.9819.C108.ol.np	Method	AAT/NAP
Start	1	End	1305
GI	4680204	Score	447
Exons	1..585, 660..1305		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	21664	Seq. ID	OJ990305_12.9819.C108
Gene No.	45210	Strand	+
Start	1	End	1305
Name	OJ990305_12.9819.C108.ol.gs	Method	GENSCAN
Start	70	End	1135
GI	none	Score	.81
Exons	70..420, 466..585, 660..801, 927..1135		

Seq. No.	21665	Seq. ID	OJ990305_12.9819.C109
Gene No.	45211	Strand	-
Start	273	End	367
Name	OJ990305_12.9819.C109.ol.gp	Method	AAT/GAP
Start	273	End	367
GI	21474_1.R1084	Score	149
Exons	273..367		
GI Descrip.	'3894159 2.0e-10 (AC005312) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	21666	Seq. ID	OJ990305_12.9819.C110
Gene No.	45212	Strand	+
Start	1	End	1302
Name	OJ990305_12.9819.C110.ol.np	Method	AAT/NAP
Start	1	End	1302
GI	6630696	Score	1629
Exons	1..1302		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	21666	Seq. ID	OJ990305_12.9819.C110
Gene No.	45212	Strand	+
Start	1	End	1302
Name	OJ990305_12.9819.C110.ol.tc	Method	TBLASTX:Cress
Start	39	End	311
GI	none	Score	277
Exons	39..311, 59..223		

Seq. No.	21666	Seq. ID	OJ990305_12.9819.C110
Gene No.	45212	Strand	+

Start	1	End	1302
Name	OJ990305_12.9819.C110.o1.gs	Method	GENSCAN
Start	47	End	1065
GI	none	Score	.78
Exons	47..330, 433..1065		

Seq. No.	21666	Seq. ID	OJ990305_12.9819.C110
Gene No.	45212	Strand	+
Start	1	End	1302
Name	OJ990305_12.9819.C110.o1.ts	Method	TBLASTX:Soybean
Start	60	End	422
GI	5509260	Score	301
Exons	60..422, 62..184		
GI Descrip.	-		

Seq. No.	21666	Seq. ID	OJ990305_12.9819.C110
Gene No.	45212	Strand	+
Start	1	End	1302
Name	OJ990305_12.9819.C110.o1.tm	Method	TBLASTX:Maize
Start	92	End	539
GI	none	Score	322
Exons	92..223, 93..539, 228..377, 344..442		

Seq. No.	21666	Seq. ID	OJ990305_12.9819.C110
Gene No.	45212	Strand	+
Start	1	End	1302
Name	OJ990305_12.9819.C110.o1.tw	Method	TBLASTX:Wheat
Start	93	End	863
GI	none	Score	285
Exons	93..437, 432..638, 654..767, 792..863		

Seq. No.	21666	Seq. ID	OJ990305_12.9819.C110
Gene No.	45212	Strand	+
Start	1	End	1302
Name	OJ990305_12.9819.C110.o2.ts	Method	TBLASTX:Soybean
Start	491	End	839
GI	none	Score	145
Exons	491..655, 492..650, 654..839, 722..838		

Seq. No.	21666	Seq. ID	OJ990305_12.9819.C110
Gene No.	45212	Strand	+
Start	1	End	1302
Name	OJ990305_12.9819.C110.o2.tm	Method	TBLASTX:Maize
Start	618	End	989
GI	none	Score	313
Exons	618..989, 641..988		

Seq. No.	21666	Seq. ID	OJ990305_12.9819.C110
Gene No.	45212	Strand	+
Start	1	End	1302
Name	OJ990305_12.9819.C110.o2.tw	Method	TBLASTX:Wheat
Start	864	End	1098
GI	none	Score	76
Exons	864..920, 866..919, 929..1096, 935..1096, 936..1097, 937..1098, 942..1097		

Seq. No.	21667	Seq. ID	OJ990305_12.9819.C111
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Gene No.	45213	Strand	-
Start	206	End	477
Name	OJ990305_12.9819.C111.ol.gs	Method	GENSCAN
Start	206	End	477
GI	none	Score	.84
Exons	206..342, 390..477		

Seq. No.	21668	Seq. ID	OJ990305_12.9819.C112
Gene No.	45214	Strand	+
Start	1	End	740
Name	OJ990305_12.9819.C112.ol.np	Method	AAT/NAP
Start	1	End	740
GI	5441880	Score	690
Exons	1..29, 165..320, 426..740		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	21668	Seq. ID	OJ990305_12.9819.C112
Gene No.	45214	Strand	+
Start	1	End	740
Name	OJ990305_12.9819.C112.ol.gs	Method	GENSCAN
Start	170	End	672
GI	none	Score	.89
Exons	170..320, 426..672		

Seq. No.	21669	Seq. ID	OJ990305_12.9819.C114
Gene No.	45215	Strand	-
Start	1	End	904
Name	OJ990305_12.9819.C114.ol.np	Method	AAT/NAP
Start	1	End	904
GI	1711508	Score	373
Exons	1..281, 376..526, 616..904		
GI Descrip.	SIGNAL RECOGNITION PARTICLE 54 KD PROTEIN 1 (SRP54) gi 1020000 (L48284) signal recognition particle 54 kDa subunit [Hordeum vulgare]		

Seq. No.	21669	Seq. ID	OJ990305_12.9819.C114
Gene No.	45215	Strand	-
Start	1	End	904
Name	OJ990305_12.9819.C114.ol.tc	Method	TBLASTX:Cress
Start	252	End	701
GI	none	Score	43
Exons	252..281, 253..279, 372..527, 374..562, 374..457, 376..528, 613..699, 616..699, 617..700, 618..701, 618..701		

Seq. No.	21669	Seq. ID	OJ990305_12.9819.C114
Gene No.	45215	Strand	-
Start	1	End	904
Name	OJ990305_12.9819.C114.ol.ts	Method	TBLASTX:Soybean
Start	252	End	529
GI	none	Score	37
Exons	252..281, 252..281, 253..282, 372..458, 373..528, 376..528, 377..529		

Seq. No.	21669	Seq. ID	OJ990305_12.9819.C114
Gene No.	45215	Strand	-

Start	1	End	904
Name	OJ990305_12.9819.C114.ol.tm	Method	TBLASTX:Maize
Start	252	End	702
GI	none	Score	43
Exons	252..281, 253..282, 364..534, 376..528, 377..562, 613..699, 614..700, 616..702, 618..701		
Seq. No.	21670	Seq. ID	OJ990305_12.9819.C115
Gene No.	45216	Strand	+
Start	774	End	1175
Name	OJ990305_12.9819.C115.ol.gp	Method	AAT/GAP
Start	774	End	1175
GI	7406_1.R1084	Score	640
Exons	774..1175		
GI Descrip.	'1122315/emb CAA63901  7.0e-10 (X94191) heat shock protein 17.0 [Pennisetum glaucum]'		
Seq. No.	21670	Seq. ID	OJ990305_12.9819.C115
Gene No.	45217	Strand	-
Start	41	End	283
Name	OJ990305_12.9819.C115.ol.gs	Method	GENSCAN
Start	41	End	283
GI	none	Score	.5
Exons	41..283		
Seq. No.	21670	Seq. ID	OJ990305_12.9819.C115
Gene No.	45218	Strand	-
Start	783	End	3744
Name	OJ990305_12.9819.C115.o2.gs	Method	GENSCAN
Start	783	End	2530
GI	none	Score	.74
Exons	783..905, 1503..1592, 2187..2345, 2528..2530		
Seq. No.	21670	Seq. ID	OJ990305_12.9819.C115
Gene No.	45218	Strand	-
Start	783	End	3744
Name	OJ990305_12.9819.C115.o2.gp	Method	AAT/GAP
Start	1118	End	2932
GI	LIB3431-045-P1-N1-A10	Score	825
Exons	1118..1227, 2589..2932		
GI Descrip.	'5441876/dbj AP000367.1 AP000367 0.0e+00 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig b)'		
Seq. No.	21670	Seq. ID	OJ990305_12.9819.C115
Gene No.	45218	Strand	-
Start	783	End	3744
Name	OJ990305_12.9819.C115.o3.gs	Method	GENSCAN
Start	2757	End	3517
GI	none	Score	.75
Exons	2757..2917, 3068..3270, 3275..3322, 3386..3517		
Seq. No.	21670	Seq. ID	OJ990305_12.9819.C115
Gene No.	45218	Strand	-
Start	783	End	3744
Name	OJ990305_12.9819.C115.ol.np	Method	AAT/NAP
Start	3036	End	3744
GI	5441880	Score	565

Exons 3036..3270, 3386..3517, 3608..3744  
 GI Descrip. (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]

Seq. No. 21671 Seq. ID OJ990305\_12.9819.C116  
 Gene No. 45219 Strand -  
 Start 1 End 1744  
 Name OJ990305\_12.9819.C116.o1.np Method AAT/NAP  
 Start 1 End 1744  
 GI 5441880 Score 1160  
 Exons 1..140, 385..643, 720..1018, 1605..1744  
 GI Descrip. (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]

Seq. No. 21671 Seq. ID OJ990305\_12.9819.C116  
 Gene No. 45219 Strand -  
 Start 1 End 1744  
 Name OJ990305\_12.9819.C116.o1.gs Method GENSCAN  
 Start 110 End 1639  
 GI none Score .85  
 Exons 110..292, 385..643, 720..1018, 1110..1520, 1605..1639

Seq. No. 21671 Seq. ID OJ990305\_12.9819.C116  
 Gene No. 45219 Strand -  
 Start 1 End 1744  
 Name OJ990305\_12.9819.C116.o1.gp Method AAT/GAP  
 Start 393 End 892  
 GI LIB3475-007-P1-K1-G8 Score 793  
 Exons 393..643, 720..892  
 GI Descrip. '5441880/dbj|BAA82378.1| 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]'

Seq. No. 21672 Seq. ID OJ990305\_12.9819.C117  
 Gene No. 45220 Strand -  
 Start 189 End 818  
 Name OJ990305\_12.9819.C117.o1.gp Method AAT/GAP  
 Start 158 End 602  
 GI none Score 872  
 Exons 158..602

Seq. No. 21672 Seq. ID OJ990305\_12.9819.C117  
 Gene No. 45220 Strand -  
 Start 189 End 818  
 Name OJ990305\_12.9819.C117.o1.gs Method GENSCAN  
 Start 189 End 818  
 GI none Score 1  
 Exons 189..818

Seq. No. 21673 Seq. ID OJ990305\_12.9819.C118  
 Gene No. 45221 Strand -  
 Start 289 End 4118  
 Name OJ990305\_12.9819.C118.o1.gp Method AAT/GAP  
 Start 289 End 794  
 GI none Score 959



Exons 289..794

Seq. No. 21673 Seq. ID OJ990305\_12.9819.C118  
Gene No. 45221 Strand -  
Start 289 End 4118  
Name OJ990305\_12.9819.C118.o1.np Method AAT/NAP  
Start 651 End 2788  
GI 6692122 Score 500  
Exons 651..773, 863..984, 1385..1506, 1568..1709, 1856..1934,  
2017..2152, 2250..2338, 2643..2788  
GI Descrip. (AC007654) T19E23.9 [Arabidopsis thaliana]

Seq. No. 21673 Seq. ID OJ990305\_12.9819.C118  
Gene No. 45221 Strand -  
Start 289 End 4118  
Name OJ990305\_12.9819.C118.o1.gs Method GENSCAN  
Start 750 End 4118  
GI none Score .73  
Exons 750..884, 1410..1485, 1588..1709, 1860..1934, 2017..2152,  
2250..2343, 3582..3703, 4111..4118

Seq. No. 21673 Seq. ID OJ990305\_12.9819.C118  
Gene No. 45221 Strand -  
Start 289 End 4118  
Name OJ990305\_12.9819.C118.o2.gp Method AAT/GAP  
Start 2075 End 3747  
GI LIB3434-044-P1-K1-B4 Score 839  
Exons 2075..2152, 2250..2338, 2643..2797, 3582..3747  
GI Descrip. '4538965/emb|CAB39789.1| 8.0e-13 (AL049488) hypothetical protein  
[Arabidopsis thaliana]'

Seq. No. 21673 Seq. ID OJ990305\_12.9819.C118  
Gene No. 45222 Strand -  
Start 6687 End 7142  
Name OJ990305\_12.9819.C118.o1.tw Method TBLASTX:Wheat  
Start 642 End 6432  
GI none Score 87  
Exons 642..785, 643..783, 861..920, 1410..1484, 1587..1649,  
1588..1650, 6331..6432

Seq. No. 21673 Seq. ID OJ990305\_12.9819.C118  
Gene No. 45222 Strand -  
Start 6687 End 7142  
Name OJ990305\_12.9819.C118.o2.tm Method TBLASTX:Maize  
Start 654 End 1485  
GI none Score 81  
Exons 654..776, 663..785, 667..783, 861..923, 861..923, 1396..1485,  
1407..1484

Seq. No. 21673 Seq. ID OJ990305\_12.9819.C118  
Gene No. 45222 Strand -  
Start 6687 End 7142  
Name OJ990305\_12.9819.C118.o1.tc Method TBLASTX:Cress  
Start 660 End 1623  
GI none Score 95  
Exons 660..785, 661..780, 861..923, 1402..1482, 1407..1484,  
1585..1623, 1587..1622

Seq. No.	21673	Seq. ID	OJ990305_12.9819.C118
Gene No.	45222	Strand	-
Start	6687	End	7142
Name	OJ990305_12.9819.C118.o1.ts	Method	TBLASTX:Soybean
Start	1396	End	1709
GI	none	Score	75
Exons	1396..1482, 1407..1484, 1408..1485, 1410..1487, 1582..1659, 1585..1695, 1587..1709		

Seq. No.	21673	Seq. ID	OJ990305_12.9819.C118
Gene No.	45222	Strand	-
Start	6687	End	7142
Name	OJ990305_12.9819.C118.o1.tm	Method	TBLASTX:Maize
Start	1596	End	2762
GI	none	Score	109
Exons	1596..1709, 1597..1704, 1848..1961, 1858..1935, 1859..1936, 1966..2154, 2015..2155, 2028..2159, 2029..2160, 2225..2356, 2250..2339, 2251..2340, 2643..2762, 2645..2755		

Seq. No.	21673	Seq. ID	OJ990305_12.9819.C118
Gene No.	45222	Strand	-
Start	6687	End	7142
Name	OJ990305_12.9819.C118.o2.gs	Method	GENSCAN
Start	6687	End	7142
GI	none	Score	.47
Exons	6687..6800, 7003..7142		

Seq. No.	21674	Seq. ID	OJ990305_12.9819.C119
Gene No.	45223	Strand	+
Start	860	End	1133
Name	OJ990305_12.9819.C119.o1.gs	Method	GENSCAN
Start	860	End	1133
GI	none	Score	.86
Exons	860..949, 1045..1133		

Seq. No.	21675	Seq. ID	OJ990305_12.9819.C120
Gene No.	45224	Strand	-
Start	435	End	677
Name	OJ990305_12.9819.C120.o1.gs	Method	GENSCAN
Start	435	End	677
GI	none	Score	.89
Exons	435..677		

Seq. No.	21676	Seq. ID	OJ990305_12.9819.C122
Gene No.	45225	Strand	-
Start	1	End	542
Name	OJ990305_12.9819.C122.o1.np	Method	AAT/NAP
Start	1	End	542
GI	5902444	Score	479
Exons	1..542		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	21676	Seq. ID	OJ990305_12.9819.C122
Gene No.	45225	Strand	-
Start	1	End	542
Name	OJ990305_12.9819.C122.o1.gs	Method	GENSCAN

Start 37  
GI none  
Exons 37..134, 205..494

End 494  
Score .67

Seq. No. 21677  
Gene No. 45226  
Start 382  
Name OJ990305\_12.9819.C123.ol.gs  
Start 382  
GI none  
Exons 382..487

Seq. ID OJ990305\_12.9819.C123  
Strand +  
End 487  
Method GENSCAN  
End 487  
Score .93

Seq. No. 21678  
Gene No. 45227  
Start 1  
Name OJ990305\_12.9819.C125.ol.np  
Start 1  
GI 541816  
Exons 1..60, 285..374, 475..554

Seq. ID OJ990305\_12.9819.C125  
Strand -  
End 554  
Method AAT/NAP  
End 554  
Score 217

GI Descrip. protein kinase - common ice plant gi|457689|emb|CAA82990|  
(Z30329) protein kinase [Mesembryanthemum crystallinum]

Seq. No. 21678  
Gene No. 45228  
Start 475  
Name OJ990305\_12.9819.C125.ol.tc  
Start 290  
GI none  
Exons 290..373, 291..374, 305..376, 472..549, 474..560

Seq. ID OJ990305\_12.9819.C125  
Strand -  
End 578  
Method TBLASTX:Cress  
End 560  
Score 111

Seq. No. 21678  
Gene No. 45228  
Start 475  
Name OJ990305\_12.9819.C125.ol.tm  
Start 290  
GI none  
Exons 290..373, 291..374, 291..374, 292..375, 472..555, 474..563,  
474..560, 481..561

Seq. ID OJ990305\_12.9819.C125  
Strand -  
End 578  
Method TBLASTX:Maize  
End 563  
Score 134

Seq. No. 21678  
Gene No. 45228  
Start 475  
Name OJ990305\_12.9819.C125.ol.ts  
Start 290  
GI none  
Exons 290..373, 291..374, 453..542, 472..576, 474..578

Seq. ID OJ990305\_12.9819.C125  
Strand -  
End 578  
Method TBLASTX:Soybean  
End 578  
Score 118

Seq. No. 21678  
Gene No. 45228  
Start 475  
Name OJ990305\_12.9819.C125.ol.gs  
Start 475  
GI none  
Exons 475..560

Seq. ID OJ990305\_12.9819.C125  
Strand -  
End 578  
Method GENSCAN  
End 560  
Score .82

Seq. No. 21679  
Gene No. 45229

Seq. ID OJ990305\_12.9819.C126  
Strand +

Start 257  
 Name OJ990305\_12.9819.C126.o1.gs  
 Start 257  
 GI none  
 Exons 257..326, 371..678

End 678  
 Method GENSCAN  
 End 678  
 Score .92

Seq. No. 21680  
 Gene No. 45230  
 Start 56  
 Name OJ990305\_12.9819.C127.o1.gs  
 Start 56  
 GI none  
 Exons 56..363

Seq. ID OJ990305\_12.9819.C127  
 Strand +  
 End 363  
 Method GENSCAN  
 End 363  
 Score .85

Seq. No. 21680  
 Gene No. 45231  
 Start 872  
 Name OJ990305\_12.9819.C127.o1.np  
 Start 872  
 GI 4567294  
 Exons 872..1110

Seq. ID OJ990305\_12.9819.C127  
 Strand +  
 End 1110  
 Method AAT/NAP  
 End 1110  
 Score 73

GI Descrip. (AC006918) putative Athila retroelement ORF1 protein  
 [Arabidopsis thaliana]

Seq. No. 21681  
 Gene No. 45232  
 Start 1914  
 Name OJ990305\_12.9819.C128.o1.ts  
 Start 1257  
 GI none  
 Exons 1257..1595

Seq. ID OJ990305\_12.9819.C128  
 Strand +  
 End 2275  
 Method TBLASTX:Soybean  
 End 1595  
 Score 185

Seq. No. 21681  
 Gene No. 45232  
 Start 1914  
 Name OJ990305\_12.9819.C128.o2.np  
 Start 1914  
 GI 4378066  
 Exons 1914..2159, 2255..2275

Seq. ID OJ990305\_12.9819.C128  
 Strand +  
 End 2275  
 Method AAT/NAP  
 End 2275  
 Score 34

GI Descrip. (AF098806) polyprotein [Sorghum bicolor]  
 gi|4680208|gb|AAD27571.1|AF114171\_12 (AF114171) polyprotein  
 [Sorghum bicolor]

Seq. No. 21682  
 Gene No. 45233  
 Start 268  
 Name OJ990305\_12.9819.C131.o1.np  
 Start 268  
 GI 5441880  
 Exons 268..568, 645..743

Seq. ID OJ990305\_12.9819.C131  
 Strand -  
 End 743  
 Method AAT/NAP  
 End 743  
 Score 172

GI Descrip. (AP000367) EST C28952(C62945) corresponds to a region of the  
 predicted gene.; Similar to maize transposon MuDR, mudrA protein.  
 (AC003981) [Oryza sativa]

Seq. No. 21683  
 Gene No. 45234  
 Start 1

Seq. ID OJ990305\_12.9819.C132  
 Strand +  
 End 629

Name	OJ990305_12.9819.C132.ol.np	Method	AAT/NAP
Start	1	End	629
GI	6539586	Score	585
Exons	1..629		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	21684	Seq. ID	OJ990305_12.9819.C133
Gene No.	45235	Strand	+
Start	292	End	388
Name	OJ990305_12.9819.C133.ol.gs	Method	GENSCAN
Start	292	End	388
GI	none	Score	.71
Exons	292..388		

Seq. No.	21685	Seq. ID	OJ990305_12.9819.C134
Gene No.	45236	Strand	-
Start	239	End	723
Name	OJ990305_12.9819.C134.ol.np	Method	AAT/NAP
Start	239	End	723
GI	4850285	Score	103
Exons	239..411, 601..723		
GI Descrip.	(AL049876) putative protein [Arabidopsis thaliana]		

Seq. No.	21686	Seq. ID	OJ990305_12.9819.C135
Gene No.	45237	Strand	-
Start	1	End	745
Name	OJ990305_12.9819.C135.ol.np	Method	AAT/NAP
Start	1	End	745
GI	4826399	Score	151
Exons	1..230, 362..529, 639..745		
GI Descrip.	(AJ012423) wall-associated kinase 2 [Arabidopsis thaliana]		

Seq. No.	21687	Seq. ID	OJ990305_12.9819.C136
Gene No.	45238	Strand	+
Start	623	End	684
Name	OJ990305_12.9819.C136.ol.gs	Method	GENSCAN
Start	623	End	684
GI	none	Score	.94
Exons	623..684		

Seq. No.	21687	Seq. ID	OJ990305_12.9819.C136
Gene No.	45239	Strand	-
Start	893	End	1066
Name	OJ990305_12.9819.C136.ol.gp	Method	AAT/GAP
Start	893	End	1066
GI	22342_1.R1084	Score	310
Exons	893..1066		
GI Descrip.	'5714737/gb AAD48057.1 AF171060_1 1.0e-14 (AF171060) RING finger protein AO7 [Mus musculus]'		

Seq. No.	21688	Seq. ID	OJ990305_12.9819.C138
Gene No.	45240	Strand	-
Start	130	End	485
Name	OJ990305_12.9819.C138.ol.gp	Method	AAT/GAP
Start	130	End	483
GI	none	Score	373
Exons	130..327, 441..483		

Seq. No.	21688	Seq. ID	OJ990305_12.9819.C138
Gene No.	45240	Strand	-
Start	130	End	485
Name	OJ990305_12.9819.C138.o1.tm	Method	TBLASTX:Maize
Start	134	End	485
GI	none	Score	151
Exons	134..367, 136..336, 441..485, 441..482		
Seq. No.	21689	Seq. ID	OJ990305_12.9819.C139
Gene No.	45241	Strand	-
Start	1	End	822
Name	OJ990305_12.9819.C139.o1.np	Method	AAT/NAP
Start	1	End	822
GI	5739323	Score	222
Exons	1..44, 343..822		
GI Descrip.	(AF166121) Cf2/Cf5 disease resistance protein homolog [Hordeum vulgare]		
Seq. No.	21689	Seq. ID	OJ990305_12.9819.C139
Gene No.	45241	Strand	-
Start	1	End	822
Name	OJ990305_12.9819.C139.o1.gs	Method	GENSCAN
Start	337	End	822
GI	none	Score	.57
Exons	337..477, 517..822		
Seq. No.	21690	Seq. ID	OJ990405_10.9819.C1
Gene No.	45242	Strand	-
Start	276	End	575
Name	OJ990405_10.9819.C1.o1.gs	Method	GENSCAN
Start	276	End	575
GI	none	Score	.71
Exons	276..309, 375..575		
Seq. No.	21691	Seq. ID	OJ990405_10.9819.C2
Gene No.	45243	Strand	-
Start	1	End	774
Name	OJ990405_10.9819.C2.o1.np	Method	AAT/NAP
Start	1	End	774
GI	3152731	Score	314
Exons	1..41, 284..634, 725..774		
GI Descrip.	(AF056325) myo-inositol 1-phosphate synthase; INO1 [Hordeum vulgare]		
Seq. No.	21691	Seq. ID	OJ990405_10.9819.C2
Gene No.	45243	Strand	-
Start	1	End	774
Name	OJ990405_10.9819.C2.o1.gs	Method	GENSCAN
Start	324	End	634
GI	none	Score	.41
Exons	324..330, 388..634		
Seq. No.	21691	Seq. ID	OJ990405_10.9819.C2
Gene No.	45243	Strand	-
Start	1	End	774
Name	OJ990405_10.9819.C2.o1.tc	Method	TBLASTX:Cress

Start 387  
 GI none  
 Exons 387..632, 388..504, 459..632

End 632  
 Score 132

Seq. No. 21691  
 Gene No. 45243  
 Start 1  
 Name OJ990405\_10.9819.C2.ol.tm  
 Start 387  
 GI none  
 Exons 387..632, 388..507, 441..632

Seq. ID OJ990405\_10.9819.C2  
 Strand -  
 End 774  
 Method TBLASTX:Maize  
 End 632  
 Score 175

Seq. No. 21691  
 Gene No. 45243  
 Start 1  
 Name OJ990405\_10.9819.C2.ol.ts  
 Start 387  
 GI none  
 Exons 387..632, 388..507, 441..632

Seq. ID OJ990405\_10.9819.C2  
 Strand -  
 End 774  
 Method TBLASTX:Soybean  
 End 632  
 Score 152

Seq. No. 21692  
 Gene No. 45244  
 Start 1  
 Name OJ990405\_10.9819.C3.ol.np  
 Start 1  
 GI 3152731  
 Exons 1..32, 329..482, 1195..1263, 1460..1643  
 GI Descrip. (AF056325) myo-inositol 1-phosphate synthase; INO1 [Hordeum vulgare]

Seq. ID OJ990405\_10.9819.C3  
 Strand -  
 End 5385  
 Method AAT/NAP  
 End 1643  
 Score 454

Seq. No. 21692  
 Gene No. 45244  
 Start 1  
 Name OJ990405\_10.9819.C3.ol.tc  
 Start 326  
 GI none  
 Exons 326..481, 339..482, 1194..1271, 1204..1263, 1207..1284, 1459..1524, 1549..1596, 1602..1643

Seq. ID OJ990405\_10.9819.C3  
 Strand -  
 End 5385  
 Method TBLASTX:Cress  
 End 1643  
 Score 149

Seq. No. 21692  
 Gene No. 45244  
 Start 1  
 Name OJ990405\_10.9819.C3.ol.ts  
 Start 326  
 GI none  
 Exons 326..481, 339..482, 339..485, 1194..1271, 1204..1263, 1459..1524, 1460..1525, 1549..1590, 1602..1643, 1606..1644

Seq. ID OJ990405\_10.9819.C3  
 Strand -  
 End 5385  
 Method TBLASTX:Soybean  
 End 1644  
 Score 121

Seq. No. 21692  
 Gene No. 45244  
 Start 1  
 Name OJ990405\_10.9819.C3.ol.tm  
 Start 332  
 GI none  
 Exons 332..481, 333..482, 1194..1271, 1199..1264, 1200..1265, 1204..1272, 1459..1527, 1460..1528, 1543..1614, 1544..1588, 1602..1643, 1606..1644

Seq. ID OJ990405\_10.9819.C3  
 Strand -  
 End 5385  
 Method TBLASTX:Maize  
 End 1644  
 Score 175

Seq. No.	21692	Seq. ID	OJ990405_10.9819.C3
Gene No.	45244	Strand	-
Start	1	End	5385
Name	OJ990405_10.9819.C3.ol.gp	Method	AAT/GAP
Start	342	End	1709
GI	95302_1.R1084	Score	812
Exons	342..482, 1195..1263, 1460..1709		
GI Descrip.	'3152731 3.0e-39 (AF056325) myo-inositol 1-phosphate synthase; INO1 [Hordeum vulgare]'		

Seq. No.	21692	Seq. ID	OJ990405_10.9819.C3
Gene No.	45244	Strand	-
Start	1	End	5385
Name	OJ990405_10.9819.C3.ol.gs	Method	GENSCAN
Start	347	End	5385
GI	none	Score	.49
Exons	347..482, 1460..1662, 1770..1842, 2240..2356, 3048..3116, 5330..5385		

Seq. No.	21693	Seq. ID	OJ990405_10.9819.C4
Gene No.	45245	Strand	+
Start	86	End	160
Name	OJ990405_10.9819.C4.ol.gs	Method	GENSCAN
Start	86	End	160
GI	none	Score	.54
Exons	86..160		

Seq. No.	21694	Seq. ID	OJ990405_10.9819.C5
Gene No.	45246	Strand	+
Start	1615	End	2135
Name	OJ990405_10.9819.C5.ol.gp	Method	AAT/GAP
Start	1615	End	2135
GI	15384_1.R1084	Score	694
Exons	1615..1839, 1942..2135		
GI Descrip.	'1150406/emb CAA86948.1  4.0e-17 (Z46868) exo-1,3-beta-glucanase/1,3-beta-D-glucan glucanohydrolase [Pichia angusta]'		

Seq. No.	21694	Seq. ID	OJ990405_10.9819.C5
Gene No.	45247	Strand	-
Start	962	End	2106
Name	OJ990405_10.9819.C5.ol.gs	Method	GENSCAN
Start	962	End	2015
GI	none	Score	.49
Exons	962..968, 1183..1395, 1987..2015		

Seq. No.	21694	Seq. ID	OJ990405_10.9819.C5
Gene No.	45247	Strand	-
Start	962	End	2106
Name	OJ990405_10.9819.C5.ol.tm	Method	TBLASTX:Maize
Start	1737	End	2106
GI	none	Score	159
Exons	1737..1847, 1738..1848, 1941..2084, 1941..2105, 1942..2106, 1942..2106		

Seq. No.	21694	Seq. ID	OJ990405_10.9819.C5
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Gene No.	45247	Strand	-
Start	962	End	2106
Name	OJ990405_10.9819.C5.o1.ts	Method	TBLASTX:Soybean
Start	1750	End	2088
GI	none	Score	143
Exons	1750..1848, 1755..1886, 1899..1973, 1936..2079, 1941..2087, 1942..2088		

Seq. No.	21695	Seq. ID	OJ990405_10.9819.C6
Gene No.	45248	Strand	+
Start	1955	End	2122
Name	OJ990405_10.9819.C6.o1.gp	Method	AAT/GAP
Start	1955	End	2122
GI	15384_1.R1084	Score	277
Exons	1955..2122		
GI Descrip.	'1150406/emb CAA86948.1  4.0e-17 (Z46868) exo-1,3-beta-glucanase/1,3-beta-D-glucan glucanohydrolase [Pichia angusta]'		

Seq. No.	21695	Seq. ID	OJ990405_10.9819.C6
Gene No.	45248	Strand	+
Start	1955	End	2122
Name	OJ990405_10.9819.C6.o1.gs	Method	GENSCAN
Start	1957	End	2115
GI	none	Score	.89
Exons	1957..2115		

Seq. No.	21696	Seq. ID	OJ990405_10.9819.C7
Gene No.	45249	Strand	+
Start	104	End	196
Name	OJ990405_10.9819.C7.o1.gp	Method	AAT/GAP
Start	104	End	196
GI	69953_1.R1084	Score	138
Exons	104..196		
GI Descrip.	'5295936/dbj AB026295.2 AB026295 7.0e-34 Oryza sativa genomic DNA, chromosome 6, clone:P0681F10, complete sequence'		

Seq. No.	21696	Seq. ID	OJ990405_10.9819.C7
Gene No.	45250	Strand	+
Start	386	End	2986
Name	OJ990405_10.9819.C7.o1.gs	Method	GENSCAN
Start	386	End	2716
GI	none	Score	1
Exons	386..555, 786..941, 1785..2134, 2529..2716		

Seq. No.	21696	Seq. ID	OJ990405_10.9819.C7
Gene No.	45250	Strand	+
Start	386	End	2986
Name	OJ990405_10.9819.C7.o2.gp	Method	AAT/GAP
Start	1895	End	2986
GI	none	Score	1260
Exons	1895..2134, 2529..2986		

Seq. No.	21696	Seq. ID	OJ990405_10.9819.C7
Gene No.	45251	Strand	+
Start	3150	End	3584
Name	OJ990405_10.9819.C7.o3.gp	Method	AAT/GAP

Start	3150	End	3584
GI	80174_2.R1084	Score	814
Exons	3150..3584		
GI Descrip.	'5441872/dbj AP000366.1 AP000366 2.0e-41 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig a)'		

Seq. No.	21696	Seq. ID	OJ990405_10.9819.C7
Gene No.	45252	Strand	+
Start	8262	End	8596
Name	OJ990405_10.9819.C7.o3.gs	Method	GENSCAN
Start	8262	End	8596
GI	none	Score	.61
Exons	8262..8381, 8498..8596		

Seq. No.	21696	Seq. ID	OJ990405_10.9819.C7
Gene No.	45253	Strand	+
Start	10562	End	14766
Name	OJ990405_10.9819.C7.o4.gs	Method	GENSCAN
Start	10562	End	14664
GI	none	Score	.47
Exons	10562..10612, 10737..11143, 11210..11536, 12966..13450, 14402..14664		

Seq. No.	21696	Seq. ID	OJ990405_10.9819.C7
Gene No.	45253	Strand	+
Start	10562	End	14766
Name	OJ990405_10.9819.C7.o1.np	Method	AAT/NAP
Start	10737	End	14766
GI	4680207	Score	692
Exons	10737..11536, 12663..14439, 14720..14766		
GI Descrip.	(AF114171) disease resistance protein RPM1 homolog [Sorghum bicolor]		

Seq. No.	21696	Seq. ID	OJ990405_10.9819.C7
Gene No.	45254	Strand	-
Start	3536	End	13341
Name	OJ990405_10.9819.C7.o1.tm	Method	TBLASTX:Maize
Start	377	End	2707
GI	none	Score	255
Exons	377..556, 381..554, 391..558, 772..882, 786..869, 1783..1833, 1843..2142, 2522..2707, 2527..2691		

Seq. No.	21696	Seq. ID	OJ990405_10.9819.C7
Gene No.	45254	Strand	-
Start	3536	End	13341
Name	OJ990405_10.9819.C7.o1.ts	Method	TBLASTX:Soybean
Start	460	End	2707
GI	none	Score	149
Exons	460..558, 461..556, 772..942, 786..944, 786..941, 1782..1931, 1783..1953, 1957..2154, 2508..2693, 2515..2694, 2518..2694, 2522..2707, 2574..2696		

Seq. No.	21696	Seq. ID	OJ990405_10.9819.C7
Gene No.	45254	Strand	-
Start	3536	End	13341
Name	OJ990405_10.9819.C7.o2.tw	Method	TBLASTX:Wheat
Start	530	End	1865

GI	none	Score	250
Exons	530..565, 786..941, 787..942, 1782..1865, 1783..1854		
Seq. No.	21696	Seq. ID	OJ990405_10.9819.C7
Gene No.	45254	Strand	-
Start	3536	End	13341
Name	OJ990405_10.9819.C7.o1.tw	Method	TBLASTX:Wheat
Start	1882	End	2670
GI	none	Score	84
Exons	1882..1947, 1883..1933, 1942..2154, 2046..2135, 2518..2670, 2522..2668, 2605..2670		
Seq. No.	21696	Seq. ID	OJ990405_10.9819.C7
Gene No.	45254	Strand	-
Start	3536	End	13341
Name	OJ990405_10.9819.C7.o2.gs	Method	GENSCAN
Start	3536	End	7041
GI	none	Score	.96
Exons	3536..5759, 6269..7041		
Seq. No.	21696	Seq. ID	OJ990405_10.9819.C7
Gene No.	45254	Strand	-
Start	3536	End	13341
Name	OJ990405_10.9819.C7.o2.ts	Method	TBLASTX:Soybean
Start	4652	End	13302
GI	none	Score	54
Exons	4652..4771, 5177..5320, 5450..5524, 12807..12896, 12808..12861, 12946..13140, 13005..13115, 13150..13302, 13153..13206		
Seq. No.	21696	Seq. ID	OJ990405_10.9819.C7
Gene No.	45254	Strand	-
Start	3536	End	13341
Name	OJ990405_10.9819.C7.o4.tw	Method	TBLASTX:Wheat
Start	5039	End	13341
GI	none	Score	114
Exons	5039..5218, 5225..5311, 13033..13176, 13156..13341		
Seq. No.	21696	Seq. ID	OJ990405_10.9819.C7
Gene No.	45254	Strand	-
Start	3536	End	13341
Name	OJ990405_10.9819.C7.o2.tm	Method	TBLASTX:Maize
Start	5192	End	13161
GI	none	Score	184
Exons	5192..5326, 12937..13161		
Seq. No.	21696	Seq. ID	OJ990405_10.9819.C7
Gene No.	45254	Strand	-
Start	3536	End	13341
Name	OJ990405_10.9819.C7.o3.tw	Method	TBLASTX:Wheat
Start	5315	End	5665
GI	none	Score	185
Exons	5315..5518, 5316..5519, 5531..5626, 5621..5665		
Seq. No.	21697	Seq. ID	OJ990405_10.9819.C9
Gene No.	45255	Strand	+
Start	469	End	564
Name	OJ990405_10.9819.C9.o1.np	Method	AAT/NAP

Start	469	End	564
GI	4680183	Score	114
Exons	469..564		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	21697	Seq. ID	OJ990405_10.9819.C9
Gene No.	45256	Strand	-
Start	2128	End	2168
Name	OJ990405_10.9819.C9.o2.gs	Method	GENSCAN
Start	2128	End	2168
GI	none	Score	.59
Exons	2128..2168		

Seq. No.	21698	Seq. ID	OJ990405_10.9819.C10
Gene No.	45257	Strand	-
Start	773	End	4477
Name	OJ990405_10.9819.C10.o1.gs	Method	GENSCAN
Start	773	End	4477
GI	none	Score	.41
Exons	773..1064, 3149..3269, 3472..3546, 3742..3819, 4474..4477		

Seq. No.	21698	Seq. ID	OJ990405_10.9819.C10
Gene No.	45257	Strand	-
Start	773	End	4477
Name	OJ990405_10.9819.C10.o1.np	Method	AAT/NAP
Start	3649	End	3803
GI	5852172	Score	41
Exons	3649..3803		
GI Descrip.	(AL117265) zhb0002.1 [Oryza sativa]		

Seq. No.	21699	Seq. ID	OJ990405_10.9819.C11
Gene No.	45258	Strand	+
Start	1130	End	1464
Name	OJ990405_10.9819.C11.o1.gs	Method	GENSCAN
Start	1130	End	1464
GI	none	Score	.6
Exons	1130..1196, 1262..1464		

Seq. No.	21699	Seq. ID	OJ990405_10.9819.C11
Gene No.	45259	Strand	+
Start	5130	End	6755
Name	OJ990405_10.9819.C11.o3.gs	Method	GENSCAN
Start	5130	End	6755
GI	none	Score	.45
Exons	5130..6755		

Seq. No.	21699	Seq. ID	OJ990405_10.9819.C11
Gene No.	45259	Strand	+
Start	5130	End	6755
Name	OJ990405_10.9819.C11.o1.np	Method	AAT/NAP
Start	5505	End	6752
GI	4585920	Score	1267
Exons	5505..6752		
GI Descrip.	(AC007211) putative SCARECROW gene regulator [Arabidopsis thaliana] gi 6644392 gb AAF21044.1 AF210732_1 (AF210732) scarecrow-like 21 [Arabidopsis thaliana]		

Seq. No.	21699	Seq. ID	OJ990405_10.9819.C11
Gene No.	45259	Strand	+
Start	5130	End	6755
Name	OJ990405_10.9819.C11.o1.gp	Method	AAT/GAP
Start	5852	End	6344
GI	18680_1.R1084	Score	917
Exons	5852..6344		
GI Descrip.	'3108053 3.0e-70 (AF056326) myo-inositol 1-phosphate synthase; INO1 [Zea mays]'		

Seq. No.	21699	Seq. ID	OJ990405_10.9819.C11
Gene No.	45260	Strand	+
Start	6680	End	7044
Name	OJ990405_10.9819.C11.o2.gp	Method	AAT/GAP
Start	6680	End	7044
GI	2797300	Score	436
Exons	6680..6780, 6901..7044		

Seq. No.	21699	Seq. ID	OJ990405_10.9819.C11
Gene No.	45261	Strand	-
Start	2695	End	3671
Name	OJ990405_10.9819.C11.o2.gs	Method	GENSCAN
Start	2695	End	3671
GI	none	Score	.46
Exons	2695..2721, 3555..3671		

Seq. No.	21699	Seq. ID	OJ990405_10.9819.C11
Gene No.	45262	Strand	
Start	5481	End	6765
Name	OJ990405_10.9819.C11.o1.ts	Method	TBLASTX:Soybean
Start	5481	End	6763
GI	none	Score	56
Exons	5481..5549, 5630..6661, 5634..6749, 6692..6763		

Seq. No.	21699	Seq. ID	OJ990405_10.9819.C11
Gene No.	45262	Strand	
Start	5481	End	6765
Name	OJ990405_10.9819.C11.o2.tc	Method	TBLASTX:Cress
Start	5636	End	6038
GI	none	Score	205
Exons	5636..5824, 5637..5831, 5661..5825, 5832..6038, 5834..6037, 5835..6038		

Seq. No.	21699	Seq. ID	OJ990405_10.9819.C11
Gene No.	45262	Strand	
Start	5481	End	6765
Name	OJ990405_10.9819.C11.o1.tm	Method	TBLASTX:Maize
Start	5640	End	6765
GI	none	Score	581
Exons	5640..6182, 5721..6113, 5729..6181, 6225..6749, 6242..6757, 6246..6758, 6355..6765		

Seq. No.	21699	Seq. ID	OJ990405_10.9819.C11
Gene No.	45262	Strand	
Start	5481	End	6765
Name	OJ990405_10.9819.C11.o1.tw	Method	TBLASTX:Wheat
Start	6015	End	6418

GI	none	Score	587
Exons	6015..6416, 6020..6418		
Seq. No.	21699	Seq. ID	OJ990405_10.9819.C11
Gene No.	45262	Strand	
Start	5481	End	6765
Name	OJ990405_10.9819.C11.o1.tc	Method	TBLASTX:Cress
Start	6195	End	6749
GI	none	Score	665
Exons	6195..6749, 6223..6498, 6227..6745		
Seq. No.	21699	Seq. ID	OJ990405_10.9819.C11
Gene No.	45262	Strand	
Start	5481	End	6765
Name	OJ990405_10.9819.C11.o2.tw	Method	TBLASTX:Wheat
Start	6488	End	6666
GI	none	Score	239
Exons	6488..6661, 6492..6665, 6492..6665, 6595..6666		
Seq. No.	21700	Seq. ID	OJ990405_10.9819.C12
Gene No.	45263	Strand	+
Start	120	End	2267
Name	OJ990405_10.9819.C12.o1.gs	Method	GENSCAN
Start	120	End	2041
GI	none	Score	.89
Exons	120..369, 479..594, 689..865, 1273..1461, 1568..1630, 1961..2041		
Seq. No.	21700	Seq. ID	OJ990405_10.9819.C12
Gene No.	45263	Strand	+
Start	120	End	2267
Name	OJ990405_10.9819.C12.o1.np	Method	AAT/NAP
Start	144	End	2168
GI	3108053	Score	1192
Exons	144..369, 479..594, 689..865, 1273..1461, 1568..1630, 2053..2168		
GI Descrip.	(AF056326) myo-inositol 1-phosphate synthase; INO1 [Zea mays]		
Seq. No.	21700	Seq. ID	OJ990405_10.9819.C12
Gene No.	45263	Strand	+
Start	120	End	2267
Name	OJ990405_10.9819.C12.o1.gp	Method	AAT/GAP
Start	792	End	2267
GI	5056020	Score	922
Exons	792..865, 1273..1461, 1568..1630, 2053..2267		
GI Descrip.	3108053 3.0e-70 (AF056326) myo-inositol 1-phosphate synthase; INO1 [Zea mays]		
Seq. No.	21700	Seq. ID	OJ990405_10.9819.C12
Gene No.	45264	Strand	+
Start	11604	End	12710
Name	OJ990405_10.9819.C12.o3.gs	Method	GENSCAN
Start	11604	End	12710
GI	none	Score	.67
Exons	11604..11680, 12017..12145, 12644..12710		
Seq. No.	21700	Seq. ID	OJ990405_10.9819.C12
Gene No.	45265	Strand	-
Start	3223	End	7484